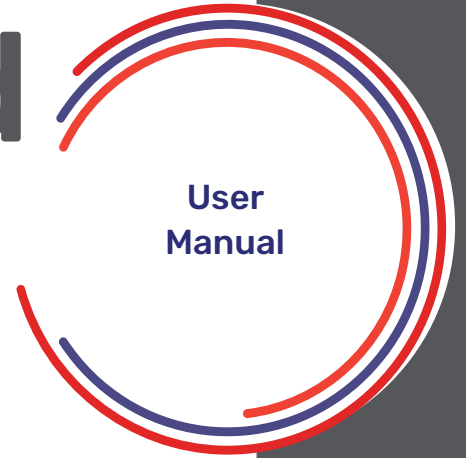# rf IDEAS

Remote Card Reader Manager for Ricoh

User Manual

Version 1.7.0 | April 2025

rf IDEAS Remote Card Reader Manager for Ricoh

Contents

1. Overview

1.1 rf IDEAS Remote Card Reader Manager for Ricoh Overview

The rf IDEAS Remote Card Reader Manager for Ricoh allows technical service professionals to remotely manage rf IDEAS readers attached to Ricoh MFPs. The current version of the application provides the ability to remotely update Secure .hwg+ files (used to configure reader card types, reader settings, and data formatting), Secure Blob *.ini files (used to configure Smartcard secure reader settings and security keys (sent to SAM card) for Legic, MIFARE and other Smartcards), BLE HWG+ (used to configure BLE data settings and BLE keys into Bluetooth mobile reader) and EN.hex files (used to load the firmware file into the reader) to rf IDEAS readers attached to G2, G2.5, and G3 SOPs. End users can either configure readers individually, or a fleet of multiple readers simultaneously.

1.2 Prerequisites & Supported Platforms

1.2.1 Ricoh MFP Prerequisites

In order to use the rf IDEAS Remote Card Reader Manager for Ricoh, you must make sure that the MFPs you are wishing to remotely configure meet the following requirements.

Component	Prerequisites
MFP	**G2, G2.5 or G3 SOP**
SmartSDK	**Version 2.30 (and above) must be installed on each machine** The rf IDEAS Remote Card Reader Manager application is not compatible with SmartSDK versions lower than version 2.30. If the SOP(s) you want to remotely configure do not have version 2.30 or higher, you will need to upgrade the SmartSDK to version 2.30 (and above) before you can remotely configure the SOP.
Firmware	**Latest MFP firmware must be installed on each machine**
HTTPS	**HTTPS must be enabled on each MFP**
Energy Saving Mode	**Make sure Energy Saving Mode is set to 'Low Power Mode' or 'Off'.** If the MFP is set to 'Sleep Mode' or Energy Saving 'On', then the Remote Card Reader Manager application will be unable to communicate to the reader while the MFP is in deep energy save / sleep mode.
SOP Application	**Applications must use the CIS Interface of the SmartSDK Version 2.30 (and above)**
rxconfServlet.zip Plugin	**Version 3.8.8 must be installed on each SOP <u>using SDK/J</u>** Prior versions of the rxconfServlet.zip plugin may not be compatible. To ensure compatibility, please install rxconfServlet 3.8.8 on all MFPs you wish to remotely configure. If the MFP is using a 3rd party SOP application, that application must be able to install and run operations with rxconfServlet 3.8.8. You may encounter compatibility issues if the 3rd party SOP application is using a prior version of the rxconfServlet.zip plugin.

1.2.2 rf IDEAS Supported Readers

rf IDEAS Models/SKUs

RDR-80xx1xxU
RDR-80xx1xxU-RSOP
KT-80xx1xxU-RSOP
RDR-75x1xxU
RDR-7Lx1xxU
KT-80xx1xxU
RDR-80xx1xxU-G3
RDR-30xx1xxU
RDR-30xx1xxU-RSOP
RDR-80Lx1xxU
RDR-8Xxx1xxU
RDR-30xx1xxU-MXS

1. Overview

1.2 Compatibility & Supported Platforms

1.2.3 Supported Operating Systems

- **Window OS**

The rf IDEAS Remote Card Reader Manager for Ricoh requires Java 8 SE. You can download the Java Runtime Environment from one of the following OpenJDK sources:

1. Click here to download Runtime Environment from Amazon Corretto.
2. Click here to download Runtime Environment from Azul Zulu builds.

1.2.4 Required Files

- **RfIdeasReaderPlugin.zip v1.1.0 and RiDPConfigServletInstaller.zip v2.02.28** Ricoh Card Reader CIS Plugin included in the following download package folder: rf IDEAS Remote Card Reader Manager for Ricoh\resources

- **.json file (parameters for CIS Plugin installation, removal, etc.)** Sample included in the following download package folder: rf IDEAS Remote Card Reader Manager for Ricoh\resources

- **csv file (list of the target MFPs and their IP address)** Sample included in the following download package folder: rfIDEAS Remote Card Reader Manager for Ricoh\sample_ files

- **Secure .hwg+ file** Sample included in the following download package folder: rf IDEAS Remote Card Reader Manager for Ricoh\sample_files

- **Secure Blob *.ini file** Sample included in the following download package folder: rf IDEAS Remote Card Reader Manager for Ricoh\sample_files

1.2.5 Readers Supported per Host

- Number of readers supported per host: 1 connected to the SOP

1.2.6 RICOH INTERNATIONAL B.V. Product Development Notifications

This product has been developed using Ricoh Company Ltd's proprietary embedded architecture or other proprietary Ricoh products.
This rf IDEAS Remote Card Reader Manager for Ricoh User Manual includes information which has been
provided by Ricoh Company, Ltd, and such information is © Ricoh Company, Ltd or its licensors. Copying in whole or in part of the Ricoh information without the permission of Ricoh is prohibited, except to the limited extent permitted by mandatory applicable law.

Products

RfIdeasReaderPlugin
1667760129

RiDPConfigServletInstaller
1667760130

rf IDEAS

1. Overview

1.3 Summary of Features

Single Device Configuration

- **Includes rf IDEAS CIS Plugin(s) deployment and reader configuration**
- **rf IDEAS reader-related Task**
- **Task or Sub-Task initialization**
- **Task or Sub-Task logs**
- **Host Device (i.e. MFP with rf IDEAS reader) access**
- **Task mode**
- **File(s) required for the chosen Task or Sub-Task**

Multi-Device / Fleet Configuration

- **Includes rf IDEAS CIS Plugin(s) deployment and reader configuration**
- **rf IDEAS reader-related Task**
- **rf IDEAS reader-related Sub-Task(s)**
- **Task or Sub-Task initialization**
- **Task or Sub-Task logs**
- **File(s) required for the chosen Task**
- **File(s) content visualization**
- **File(s) required for the chosen Sub-Task**
- **File(s) content visualization**
- **Configuration results + Export to .CSV file**
- **Sub-Task addition**

2. Enabling the Ricoh MFP

2.1 Ricoh MFP

2.1.1 Determine Ricoh Card Reader Vendor ID (VID) and Product ID (PID)

Option 1 – Using the rf IDEAS Configuration Utility
• Plug your rf IDEAS reader into the computer
• Start the rf IDEAS Configuration Utility
    • Can be downloaded here:
      rfideas.com/support/tools/downloads
• Click the Connect icon in the left hand nav.
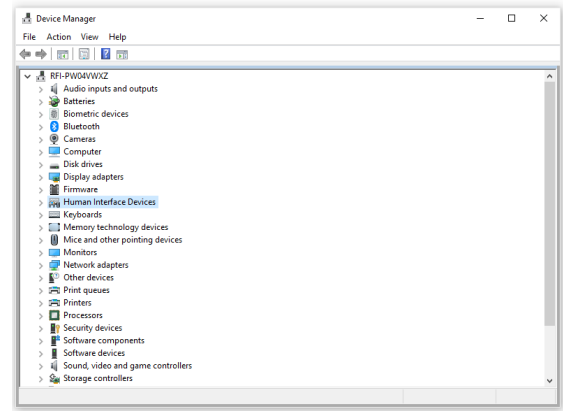• Once connected, you will see your reader appear
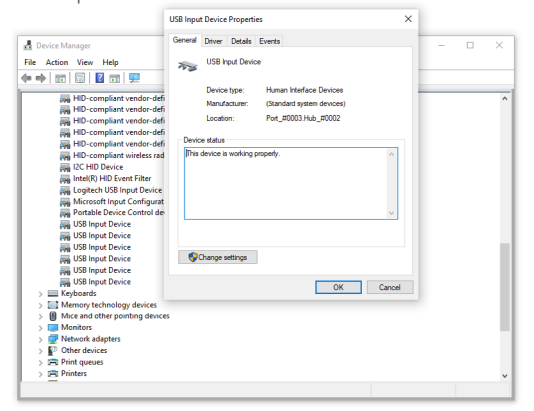 under Device List
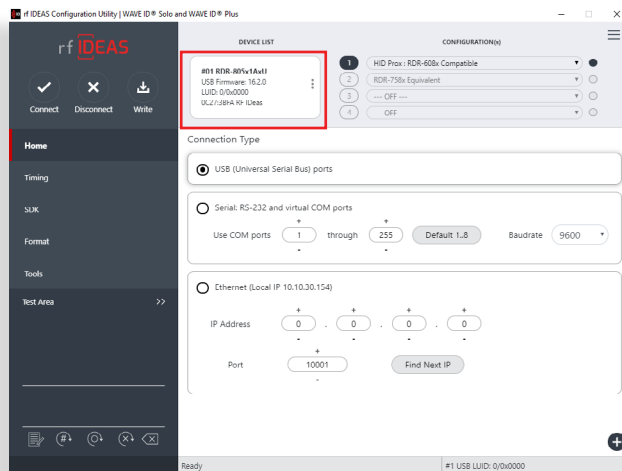
• Copy the VID and PID shown under Device List
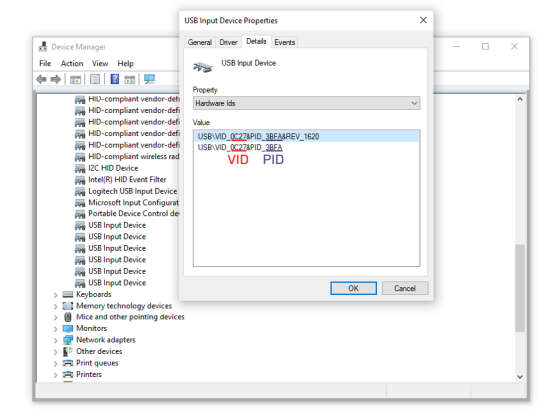

Option 2 – Using Windows Device Manager
• Start Device Manager (Windows OS)
• Locate and Expand Human Interface Devices

• Right-click on the USB input device and select
  "Properties"

• Click the "Details" tab, then set Property to
  "Hardware IDs"
• Copy the VID and PID shown under Device List
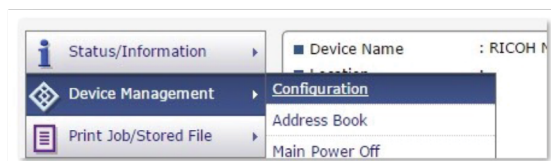
2. Enabling the Ricoh MFP

2.1 Ricoh MFP

2.1.2 Set the Ricoh Card Reader Vendor ID and Product ID on Ricoh MFP
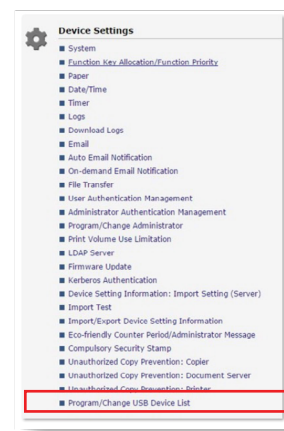
<u>Option 1 – Using the Web Image Monitor (WIM)</u>
• Login into the Web Image Monitor with MFP username + password
  WIM -> Device Management

• Go to Configuration
  WIM -> Device Management -> Configuration

• Click on Program/Change USB Device List
  WIM -> Device Management -> Configuration -> Program/Change USB Device List

• Enter the four characters collected earlier into respective Vendor ID and Product ID field
  • e.g. Vendor ID: "0C27", Product ID "3BFA"

• Enter the characters below into respective Vendor ID and Product ID field
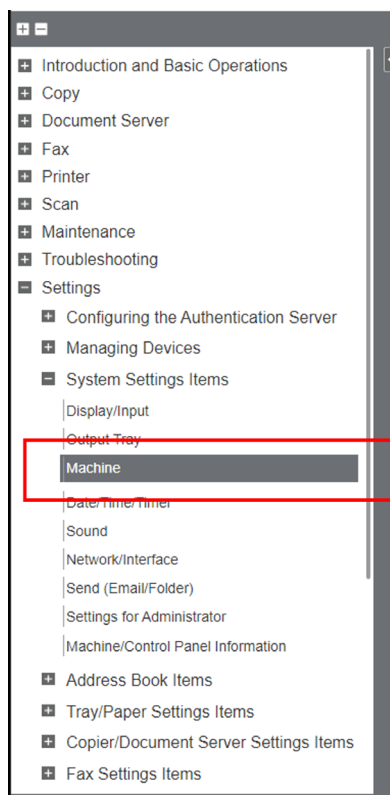 • e.g. Vendor ID: "0C27", Product ID "3CFA"

2. Enabling the Ricoh MFP

2.1 Ricoh MFP

2.1.2 Set the Ricoh Card Reader Vendor ID and Product ID on Ricoh MFP

Setting Vendor ID and Product ID on G3 Machines

- Please reboot (switch off – then on) the device after making those changes.

2. Enabling the Ricoh MFP

2.1 Ricoh MFP

2.1.2 Set the Ricoh Card Reader Vendor ID and Product ID on Ricoh MFP

Option 2 – Using the Panel

• Login into the Panel

Panel -> User Tools

• Go to Machine Settings

Panel -> User Tools -> Machine Settings

• Click on Program/Change USB Device List

Panel -> User Tools -> Machine Settings -> Program/Change USB Device List

• Enter the four characters collected earlier into respective Vendor ID and Product ID field
  • e.g. Vendor ID: "0C27", Product ID "3BFA"

• Enter the characters below into respective Vendor ID and Product ID field
 • e.g. Vendor ID: "0C27", Product ID "3BFA"

2.1.3 Complete Ricoh MFP Configuration

• Set the "Screen Startup Mode" to Normal
  • The default Screen Startup Mode is "Quick". It boots the screen as fast as possible even though some background applications may not be ready yet.
  • The "Quick" startup mode may cause misunderstanding that device is ready to use.
  • To avoid those misunderstandings, it is recommended to set "Normal" Screen Startup Mode.

• Enable Human Detection Sensor
  • This sensor should be enabled by factory. The settings organization has been changed when migrating models from Classic screen type to the new Standard screen type.
  • The following subsections shows screenshots.
    • Screen type Classic
      • Press [Settings] on the Home screen. Press [Machine Features Settings].
      • Press [System Settings] [General Features] tab [Human Detection Sensor], and then press [Active].
      • Press [OK]. After completing the procedure, press [Home]
    • Screen type Standard
      • Press [Settings] on the Home screen. Press [System Settings].
      • Press [Machine][Power/Energy Saving][Human Detection Sensor].

3. Create Secure .HWG+ and Secure Blob *.INI Files and List of MFPs to Target for Multi-Device Updates

3.1 Create Secure HWG+ file(s)

- You will need to use the rf IDEAS Configuration Utility ([download here](#)) to create a Secure .HWG+ file(s) that can be used to remotely update readers with the rf IDEAS Remote Card Reader Manager for Ricoh application.
- Secure .hwg+ files allow you to configure reader card types, reader settings, and data formatting.
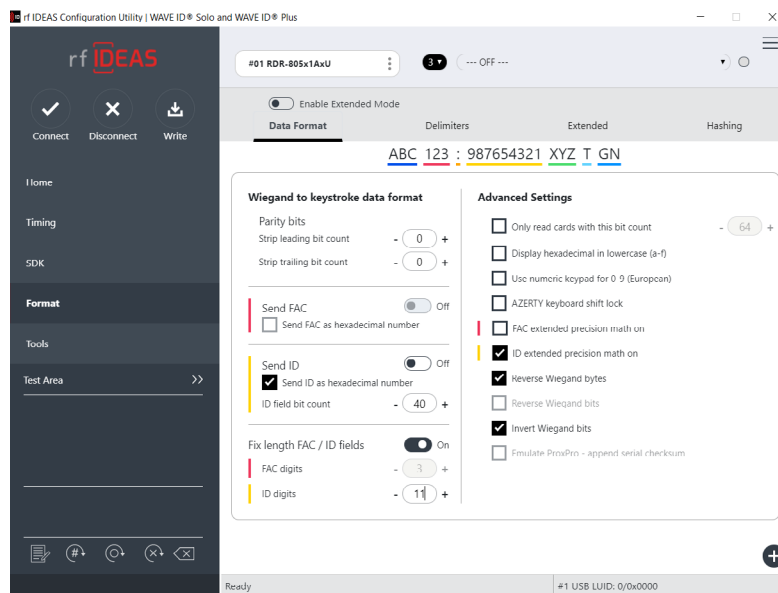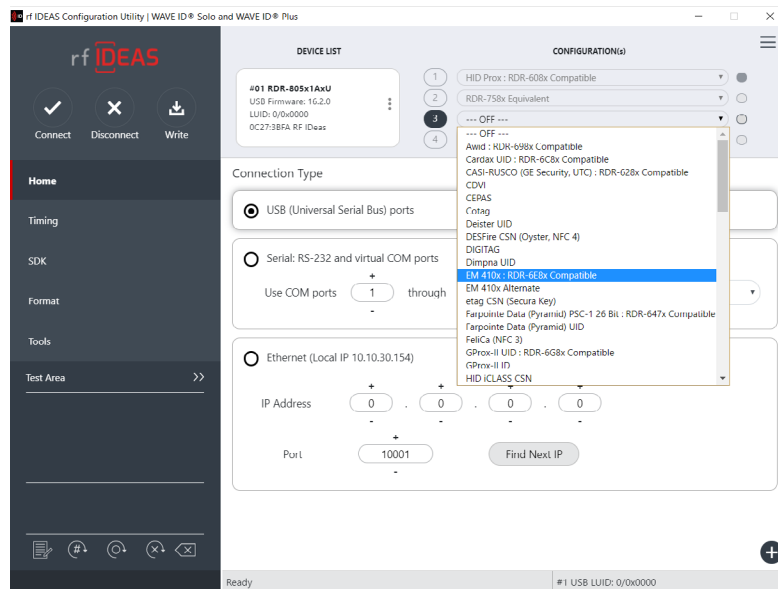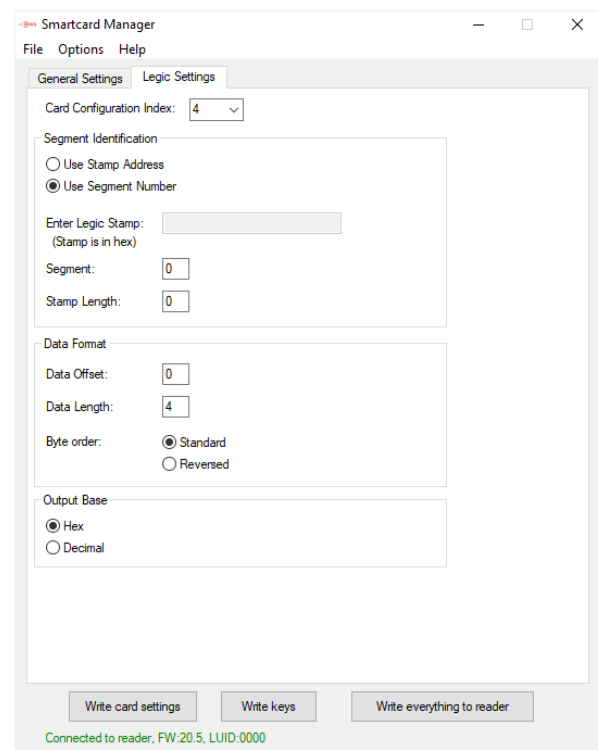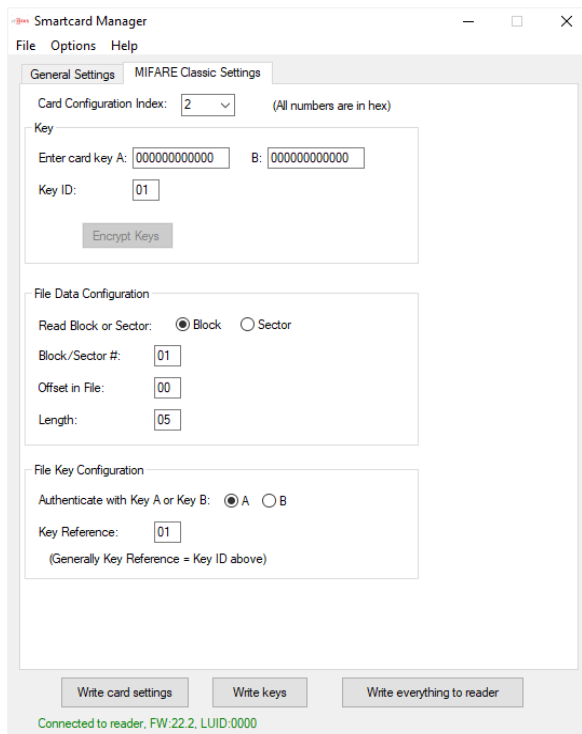

Sample Secure HWG+ files are included with the rf IDEAS Remote Card Reader Manager for Ricoh tool installer package, to help you understand the format and content within a Secure .HWG+ file.

3.2 Create Secure Blob *.ini files

- You will need to use the rf IDEAS Smartcard Manager ([download here](#)) to create a Secure Blob *.INI file that can be used to remotely update secure Smartcard readers with the rf IDEAS Remote Card Reader Manager for Ricoh application.

- Secure Blob *.INI files are used to configure Smartcard secure reader settings and security keys (sent to SAM card) for Legic, MIFARE and other Smartcards.

Sample Secure Blob *.INI files are included with the rf IDEAS Remote Card Reader Manager for Ricoh tool installer package, to help you understand the format and content within a Secure Blob *.INI file.

Further configuration guides are available at:
- https://knowledgebase.rfideas.com/how-do-i-configure-my-plus-reader-to-read-different-card-types/
- https://knowledgebase.rfideas.com/how-to-configure-my-plus-reader-for-2-different-card-formats-that-use-the-same-card-type/

3. Create Secure .HWG+ and Secure Blob *.INI Files and List of MFPs to Target for Multi-Device Updates

3.3 Create Secure BLE .hwg+ file

- You will need to use WAVE ID Mobile Configurator, download from here.
- Open the utility and connect the mobile Bluetooth reader.
- Once connected, change required BLE configuration settings in the reader and save them in reader by Write Config button. (Write Key as needed, see Mobile Configurator manual for details.)
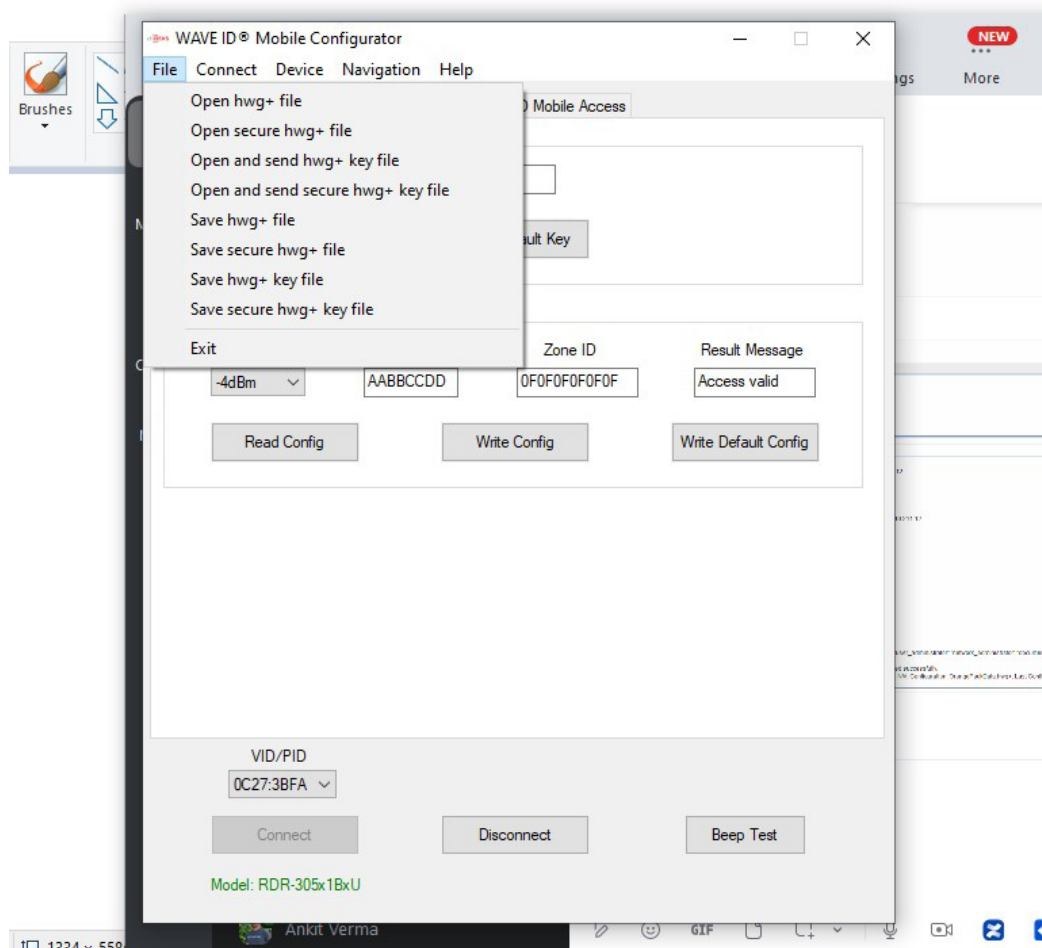
- Go to the file tab at top left of the Wave ID Mobile Configurator Utility and select save secure HWG+ file option for saving BLE .HWG+ file, and if required, select save secure HWG+ key file option for saving BLE .HWG key file
- Click OK on pop up and choose the location where the secure BLE .HWG+ file, and if required, where the BLE .HWG+ key file needs to be saved.

3. Create Secure .HWG+ and Secure Blob *.INI Files and List of MFPs to Target for Multi-Device Updates

3.4 Obtain a secure EN.HEX firmware file

Secure EN.HEX firmware files are provided by rf IDEAS Technical Support or an rf IDEAS Pre-Sales Engineer. If you would like to request a firmware file you will need to contact rf IDEAS Tech Support.

- The following are ways you can request a firmware file from rf IDEAS:
  - Submit the request here
  - Send an email to techsupport@rfideas.com
  - Initiate a live chat through the website

- Once the request is submitted, rf IDEAS will review your submission. If your request is approved, then the secure EN.HEX firmware file will be sent to you by the rf IDEAS Tech Support team. If your request is not approved, the rf IDEAS Tech Support team will provide guidance on your submission.

3.5 Compile the List of MFPs Hosting Ricoh Card Readers Requiring Configuration

1. Log onto the SLNX admin page

2. Navigate to the Devices tab
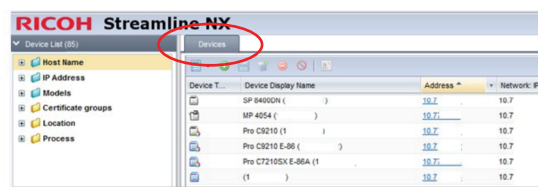
3. Right click on the name header and select "Columns".

4. Ensure the following "column" objects are selected (you can select others, the following is the minimum requirement):
- • Device Display Name
- • Address
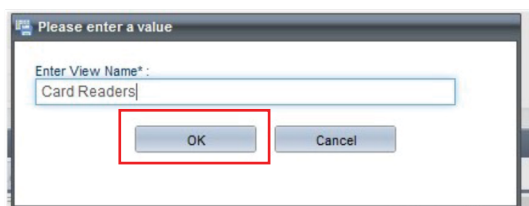- • Network: IP Address
- • Operational Panel
- • Group

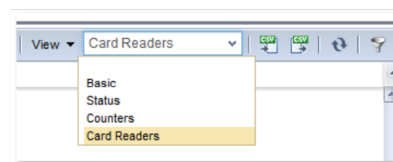NOTE: The tool may or may not ignore unneeded columns
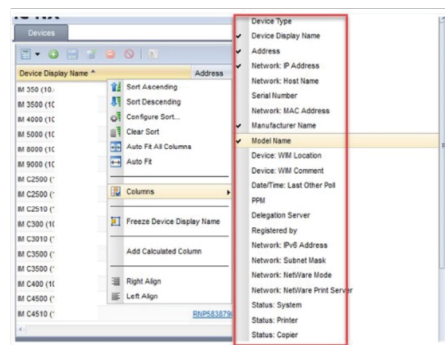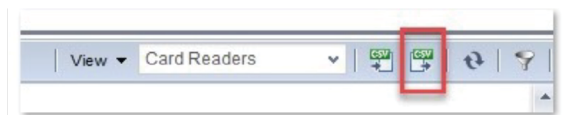

5. Click on "Views" and select "Save as"

6. Enter a name for your new view and click the "OK" button

7. Now you will have the new View Name you just saved via the View dropdown for future use.

8. To Export the device, select the CSV export icon.

9. The exported CSV file will be downloaded to your browser's default location.
   See sample .CSV file below included in
   rf IDEAS Remote Card Reader Manager for Ricoh\sample_ files

# Format Version: https://protect-us.mimecast.com/s/Cr8RCxkw1jum3VZcWAH7P?domain=5.1.1.0				
# Generated at: 09/30/2021 14:17:44				
# Function Name: Device List				
# Device Display Name	Address	Network: IP Addre	Operation Panel	Group
dev_displayname	dev_address	dev_ipaddress	operation_panel	dev_real_group_name
MP C2004ex (10.10.30.130)	RNP583879294B2F.tc.ds	10.10.30.130	Smart	Group1
MP C2004ex (10.10.30.142)	RNP002673B7A55C.tc.ds	10.10.30.142	Smart	Group2

4. Installing and uninstalling the rf IDEAS Remote Card Reader Manager for Ricoh.

4.1 Verify Java (JRE or Default JDK) Version

The rf IDEAS Remote Card Reader Manager for Ricoh is a Java application. Use the following commands to determine if Java 8 SE is currently installed on your PC.

• Type java –version and hit ENTER, this command checks the version of the Java Runtime Environment (JRE) installed on your system. JRE is needed to run Java applications.

```
C:\Windows\System32>java -version
openjdk version "1.8.0_412"
OpenJDK Runtime Environment Corretto-8.412.08.1 (build 1.8.0_412-b08)
OpenJDK 64-Bit Server VM Corretto-8.412.08.1 (build 25.412-b08, mixed mode)
```

• Type javac -version, and then hit ENTER to check the JDK installed in your system.

```
C:\Windows\System32>javac -version
javac 1.8.0_412
```

4.2 Install or Update Java

• You can download the Java Runtime Environment from one of the following OpenJDK sources:

1. Click here to download Runtime Environment from Amazon Corretto.
2. Click here to download Runtime Environment from Azul Zulu builds.

How to download and install Java on Windows?

Amazon Corretto	Click here for the online user manual for Amazon Corretto. Click here for the offline user manual for Amazon Corretto.
Azul	Click here for the user manual for Azul.

rf IDEAS

4. Installing and uninstalling the rf IDEAS Remote Card Reader Manager for Ricoh.

4.3 Install rf IDEAS Remote Card Reader Manager for Ricoh

4.3.1 Download rf IDEAS Remote Card Reader Manager for Ricoh.zip

- Click here to download the rf IDEAS Remote Card Reader Manager installation file (.zip file), which contains the rfIDEAS Remote Card Reader Manager for Ricoh.exe. Extract installation file from the .zip file.

4.3.2 Install rf IDEAS Remote Card Reader Manager for Ricoh

Double-click on the installation file.
- The installer will show the prerequisite information, indicating that Java is required to run the application.
- Click "OK" to proceed and follow the installation steps.
- To proceed with the installation, accept the License Agreement and select "Next".
- Choose the installation path;
    - The default Destination Folder path is "C:\Program Files (x86) \rf IDEAS Remote Card Reader Manager for Ricoh".
    - Alternatively, you can enter your desired path.
    - Click the "Install" button to begin the installation.
- When installation is successfully completed, click Finish to close the installer.

4. Installing and uninstalling the rf IDEAS Remote Card Reader Manager for Ricoh.

4.4 Run rf IDEAS Remote Card Reader Manager for Ricoh

- Navigate to the rf IDEAS Remote Card Reader Manager for Ricoh installation folder:
    - If the installation path was set to the default location, the folder will be located at: C:\Program Files (x86) \rf IDEAS Remote Card Reader Manager for Ricoh.
    - If a custom path was selected during installation, the folder will be in your chosen location.
- To launch the rf IDEAS Remote Card Reader Manager for Ricoh application, double click the rf IDEAS Remote Card Reader Manager for Ricoh vx.x.x.
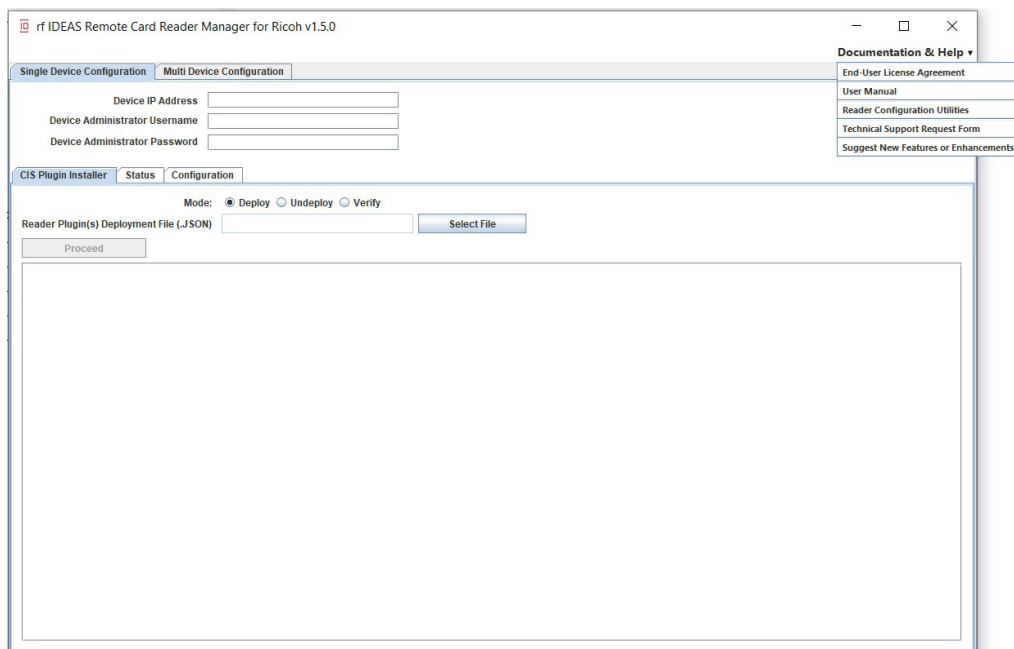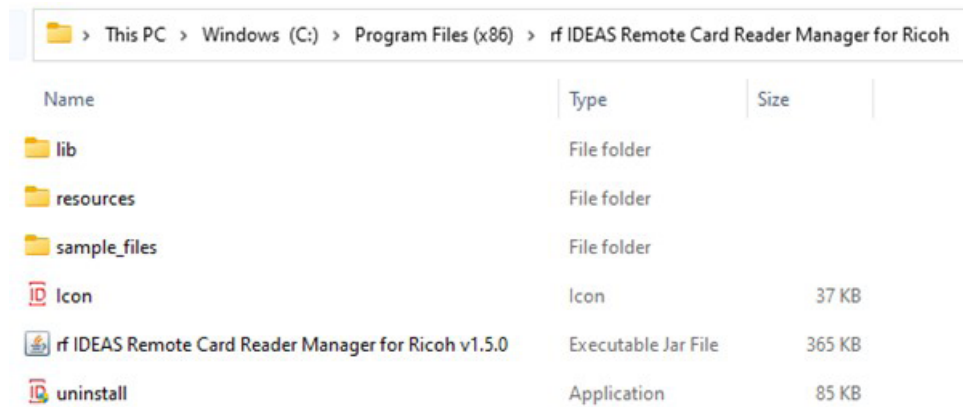
4. Installing and uninstalling the rf IDEAS Remote Card Reader Manager for Ricoh.

4.5 Uninstallation

There are two methods to uninstall the rf IDEAS Remote Card Reader Manager for Ricoh

1. Using the Application Folder

- Navigate to the Application Folder
  - Go to the folder structure where the application is installed.
  - Double-click on the Uninstall executable.
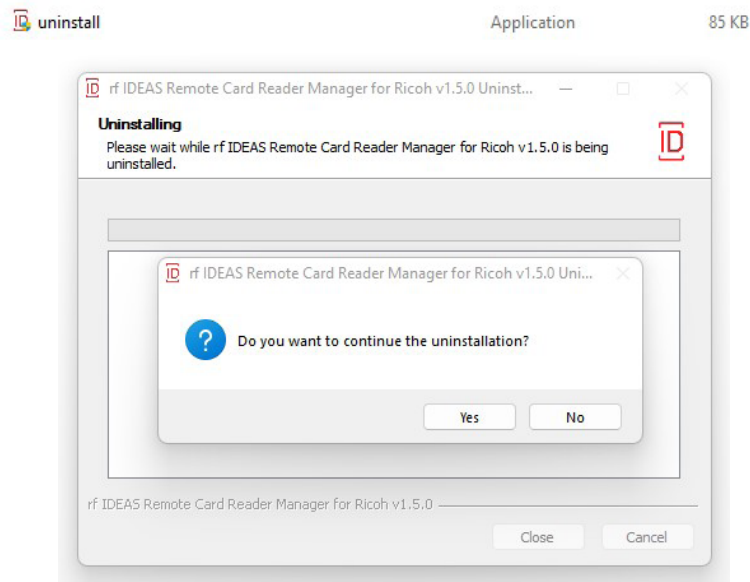
2. Using the Start Menu

- Using Control Panel
  - Click on the Start Menu.
  - Go to Menu > All or Menu > Apps.
  - Right-click on rf IDEAS Remote Card Reader Manager for Ricoh.
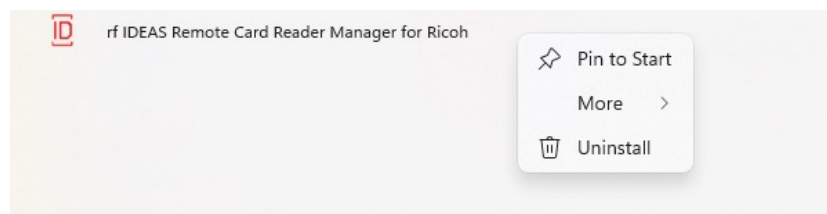
  - Click on "Uninstall".
  - Control Panel window will open.
  - Search for the application in Uninstall or change a program.
  - Right-click on rf IDEAS Remote Card Reader Manager for Ricoh.
  - Click on Uninstall/Change.
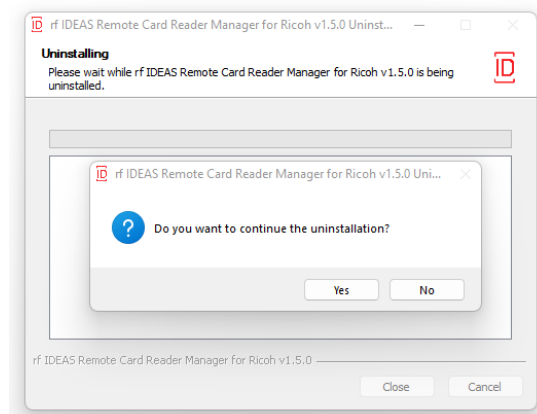
  - To continue Uninstallation, select "Yes".

![rf IDEAS logo]

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.1 Single Device Configuration (one rf IDEAS Card reader connected to Ricoh MFP)

5.1.1 Login & Verify that CIS Plugin is Installed

- Click on the Single Device Configuration tab
- Enter the IP address + Admin credentials (Username and Password) for the Host MFP (MFP onto which the rf IDEAS reader is connected to)
- Click on the "CIS Plugin Installer" tab
- Set the CIS Plugin installer's mode to "Verify"

- Click on the Select file button to load the rf IDEAS plugin "deployment" .json file

- Select the following file:
  rf IDEAS Remote Card Reader Manager for Ricoh\resources\deploycardreader.json, and click Open
- Click "Proceed" button

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.1 Single Device Configuration (one Ricoh Card reader connected to Ricoh MFP)

5.1.1 Login & Verify that CIS Plugin is Installed

Note: If reader and VID/PID is changing, then follow the below steps for CIS Plugin installer.
(For other applications like Streamline or CloudStream, the Plugin and VID PID may not be correct by default. Please see documentation of those tools for how to upload rf IDEAS plugin or set correct VID PID.)

Steps to change VID/PID:
• Check the reader VID/PID and if it is changing, update the VID/PID in .json file and re-install CIS Plugin (using "Deploy")
• Example: if VID should be 0C27 and PID should be 3B4C, then under deploycardreader.json file, edit to:

"cis_plugin_settings":{

        "class":"KSR",

        "package_name":"com.ridp.usb.cis.rfideas",

        "name":"pcProx Card Reader",

        "vendor_id":"**0C27**",

        "product_id":"**3B4C**"

        },

• Save the file and use that file while performing CIS Plugin Installation ("Deploy")

Sample Responses
Plugins are installed on MFP

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh
5.1 Single Device Configuration (one rf IDEAS reader connected to Ricoh MFP)

5.1.1 Login & Verify that CIS Plugin is Installed

Plugins are not installed on MFP

5.1.2 If rf IDEAS Plugin is not Installed

• If the rf IDEAS plugins are not installed, please set the CIS Plugin Installer's mode to "Deploy"
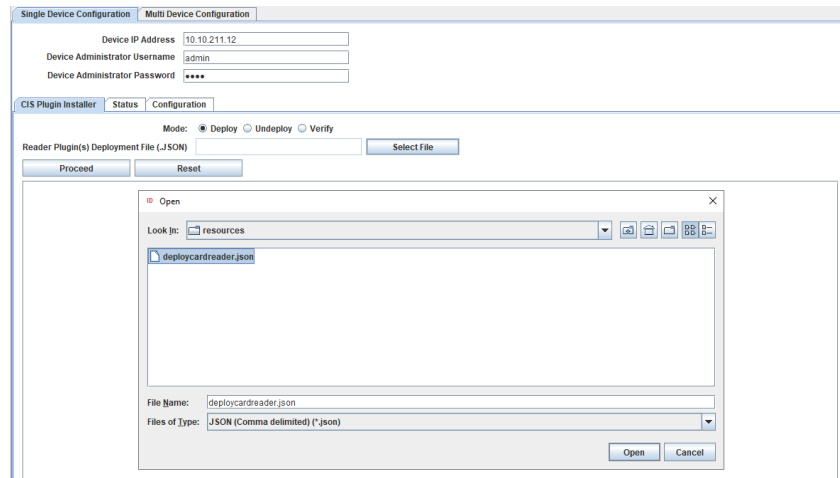

• Click on the Select file button to load the rf IDEAS plugin "deployment" .json file
• Select rf IDEAS Remote Card Reader for Ricoh\resources\deploycardreader.json

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.1 Single Device Configuration (one rf IDEAS reader connected to Ricoh MFP)
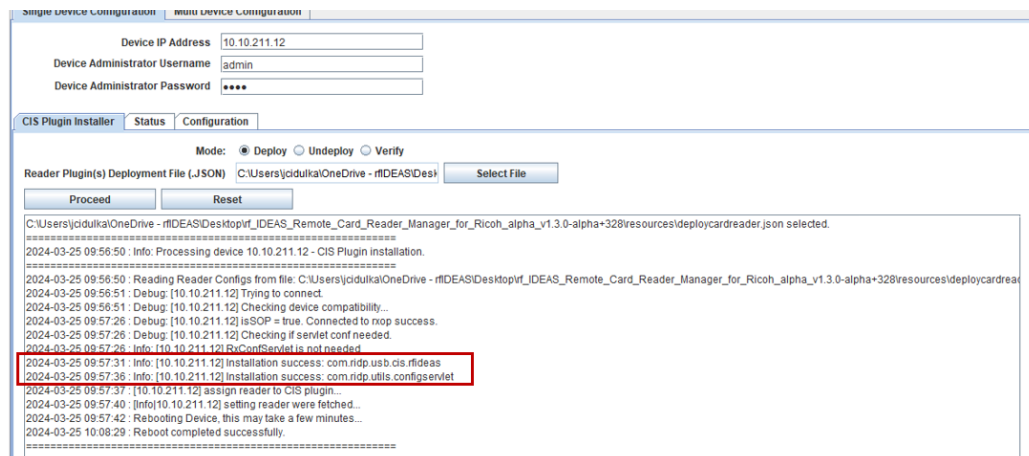
5.1.2 If rf IDEAS Plugin is not Installed

- Click the "Proceed" button
- Click "Yes" for the rf IDEAS CIS Plugin(s) to be installed on the target Ricoh MFP

Log File Responses
Plugins have been successfully deployed

The Remote Card Reader Manager application will automatically reboot the MFP after plugin installation.

Undeploy Function:
- You can Undeploy any plugin file uploaded to the MFP via the rf IDEAS Remote Card Reader Manager for Ricoh application by selecting the "Undeploy" radio button, then clicking the "Select File" button.
- It is not able to Undeploy plugin files installed via WIM or RIM.

# 5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.1 Single Device Configuration (one rf IDEAS reader connected to Ricoh MFP)

5.1.3 Using Ricoh's Remote Installer Manager (RIM) to install RfIdeasReaderPlugin & RiDPConfigServletInstaller

1. Install RIM
2. Start RIM *NOTE: Don't forget to set the Ricoh MFP admin credentials under File\Environment Setting\Device Communication Settings\Authentication Settings!*
3. Right-click on Device List
4. Click on Add, and Select > Manual Entry to input the IP address of one Ricoh MFP with a Ricoh Card Reader (Manufactured by rf IDEAS)
5. Right click on the Ricoh MFP, Select Offline Operations > Install [2visit course]...> 1. Install [Device]
6. Select RfIdeasReaderPlugin.zip, and click Open
7. Click Yes in the Remote installer Manager Popup window NOTE: Do not turn the device's power off while the process is being performed
8. Wait for the process to be completed. *NOTE: you can also access the Ricoh MFP locally (Panel) or via WIM to confirm that the plugin was installed*
9. Repeat steps 5 thru to 8 for RiDPConfigServletInstaller.zip
10. Close RIM

5.1.4 Using WIM to Install RfIdeasReaderPlugin & RiDPConfigServletInstaller

• RfIdeasReaderPlugin.zip v1.1.0 and RiDPConfigServletInstaller.zip v2.02.28 can be installed/removed via WIM using below

1. WIM --> Device Management --> Configuration --> Install.
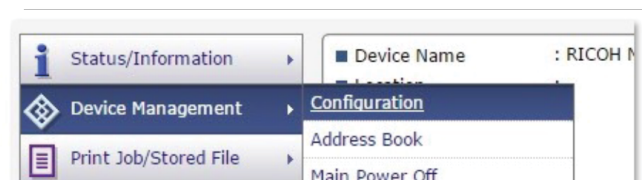
2. Browse to the RFIdeasReaderPlug-in.zip on your local PC.
3. Click "Display Extended Feature List".
4. Select the Radio button in the Total Applications list.
5. Click "Install" button.
6. Verify that **RfIdeasReaderPlugin.zip v1.1.0** is installed successfully. Information regarding the installed applications can be confirmed from the Extended Feature Setting's Extended Feature Info screen and the Startup Setting screen.
    6.1 Click on Extended Feature Info (Startup Setting) from the Extended Feature Settings menu. Up to 4 applications can be displayed at once. Changes are not possible. Changing pages is done by clicking on the index button.
    6.2 Click on the properties button of the application that you wish to display information for. Return to the "Extended feature Info" page with the "Back" button.
7. Repeat steps 2-6 above for **RiDPConfigServletInstaller.zip**

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh
5.1 Single Device Configuration (one rf IDEAS reader connected to Ricoh MFP)

5.1.4 Using WIM to Install RfIdeasReaderPlugin & RiDPConfigServletInstaller

8. Register the CIS plugin. The CIS plugin needs to be registered to the MFP. In January 2019, Ricoh released a new model generation with G2.5 panels. Therefore, different arrangements of the MFP configuration for CIS plugin registration are described in the following subsections.

8.1 On G3 Panels
- Press "Settings".
- Press "System Settings".
- Press "Network/Interface".
- Press "Control Panel: External Interface Software Settings".
- Select "IC Card Software Settings" and ensure that "Proximity Card Reader" is enabled.
- Select "Proximity Card Reader". This window will ask you to connect your card reader.
- Plug your rf IDEAS Card Reader to the left or back of the SOP panel.
- A dialog will be shown that your card reader was registered.
- Click "OK".
- The "Proximity Card Reader Settings" page will display as follows: Please verify that Vendor ID: "0c27" and Product ID "ToDo" are set. In addition, the "Auth." checkbox must be enabled.

8.2 On G2.5 Panels
- On the Home Screen of the SOP click "User Tools".
- Select "Screen Features".
- Scroll to the bottom of the list and select "Screen device settings".
- External Interface Software Settings.
- Select "IC Card Reader" and ensure that "Proximity Card Reader" is enabled.
- Select "Proximity Card Reader Settings". This window will ask you to connect your card reader.
- Plug your RF ideas Card Reader to the right side of the SOP panel. (You may need to remove the bracket first).
- If the cabling is unclear, please refer to the "Service Manual" of the specific Ricoh MFP for more detailed instructions.
- The "Proximity Card Reader Settings" page will display as follows: Please verify that Vendor ID: "0c27" and Product ID "3BFA" (alternatively 3CFA) are set.
- In addition, the "Auth." checkbox must be enabled. Click "Ok".
- Use the "OK" and "back" button to return to home screen.
- Reboot the device.

8.3 On G2.5 Panels with ACT 1.2s
- Press "System Settings".
- Press "Network/Interface".
- Press "External Interface Software Settings".
- Select "Proximity Card Reader".
- Press "Proximity Card Reader Software Settings"
- Plug the card reader into the tablet.
- A "Toast" message pops up "The card reader has been registered". This message will disappear after a few seconds.
- Enable checkbox Authentication to "Active".
- Select as Software to use "RFIdeasReaderPlug-in".
- Press "OK".
- Go back to home screen.
- Reboot the MFD.

8.4 On G2 Panels
- On the Home Screen of the SOP click "User Tools".
- Select "Screen Features".
- Scroll to the bottom of the list and select "Screen device settings".
- ICCard/Bluetooth Software Settings.
- Select "IC Card Software Settings" and ensure that "Proximity Card Reader" is enabled.
- Select "Proximity Card Reader Settings". This window will ask you to connect your card reader.
  Plug your rf IDEAS Card Reader to the right side of the SOP panel.
- A dialog will be shown that your card reader was registered.
- Click "OK".
- The "Proximity Card Reader Settings" page will display as follows: Please verify that Vendor ID: "0c27" and Product ID "ToDo" are set. In addition, the "Auth." checkbox must be enabled.

5.1.5 Checking reader status in Single Device Configuration

- Click on the Status tab
- Click on the "Get Status" button

Log File Responses

Successful Results

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh
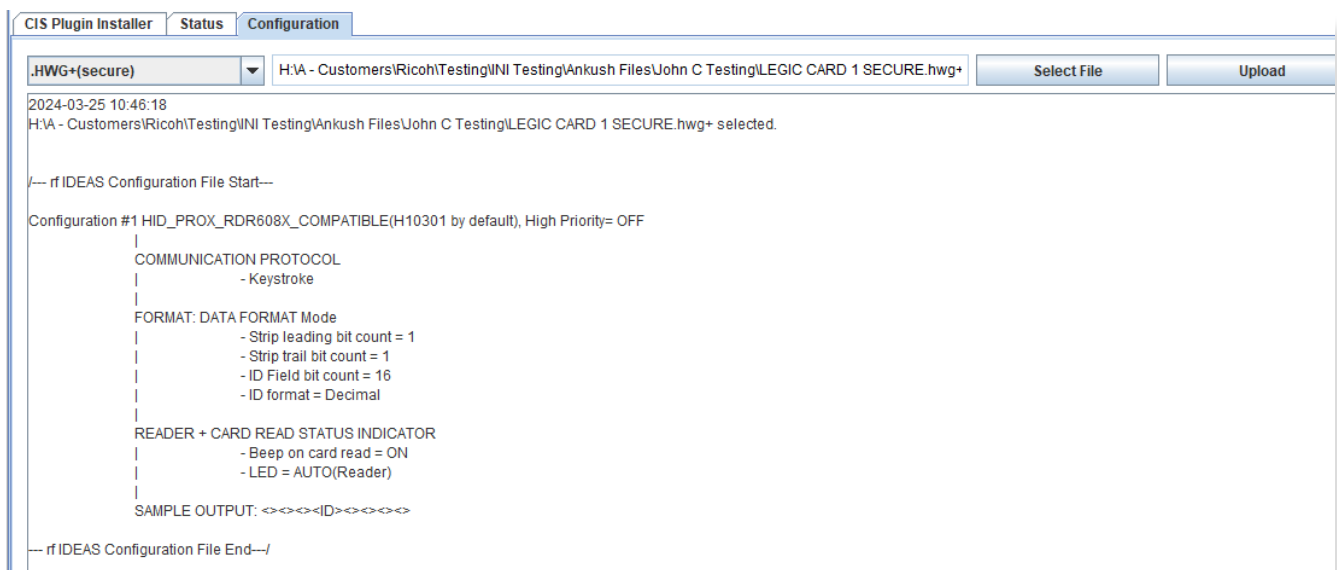## 5.1 Single Device Configuration (one rf IDEAS reader connected to Ricoh MFP)

5.1.6 Upload Secure .HWG+ file

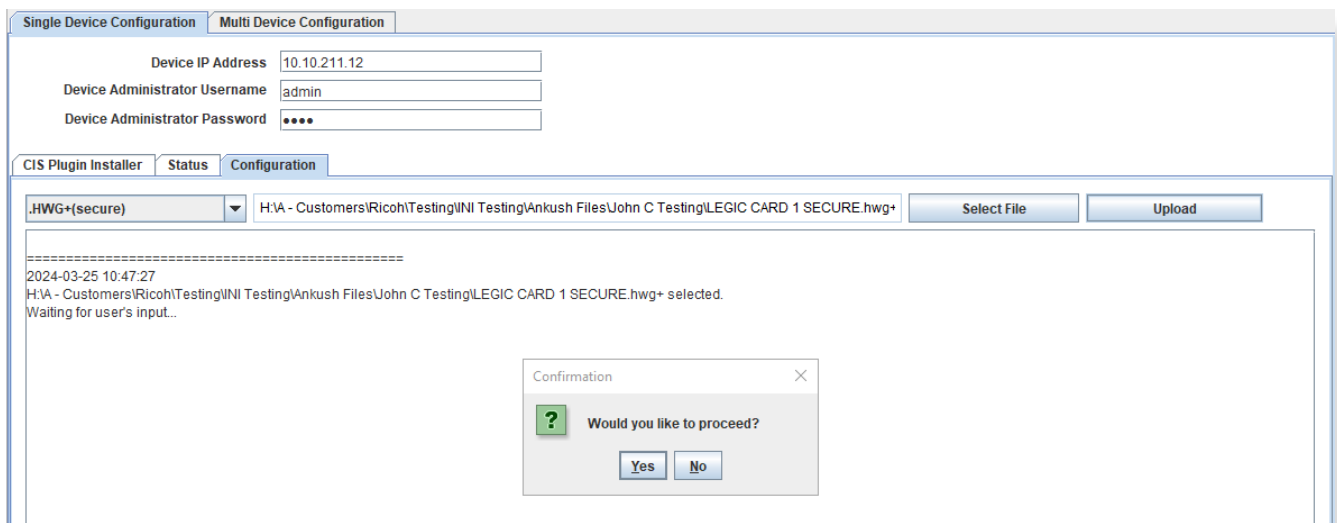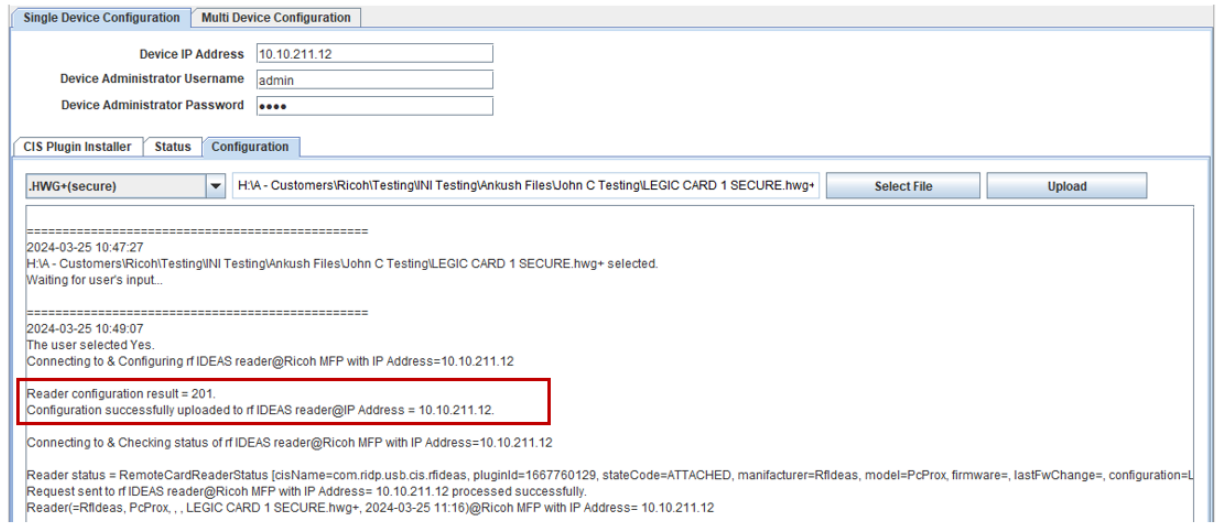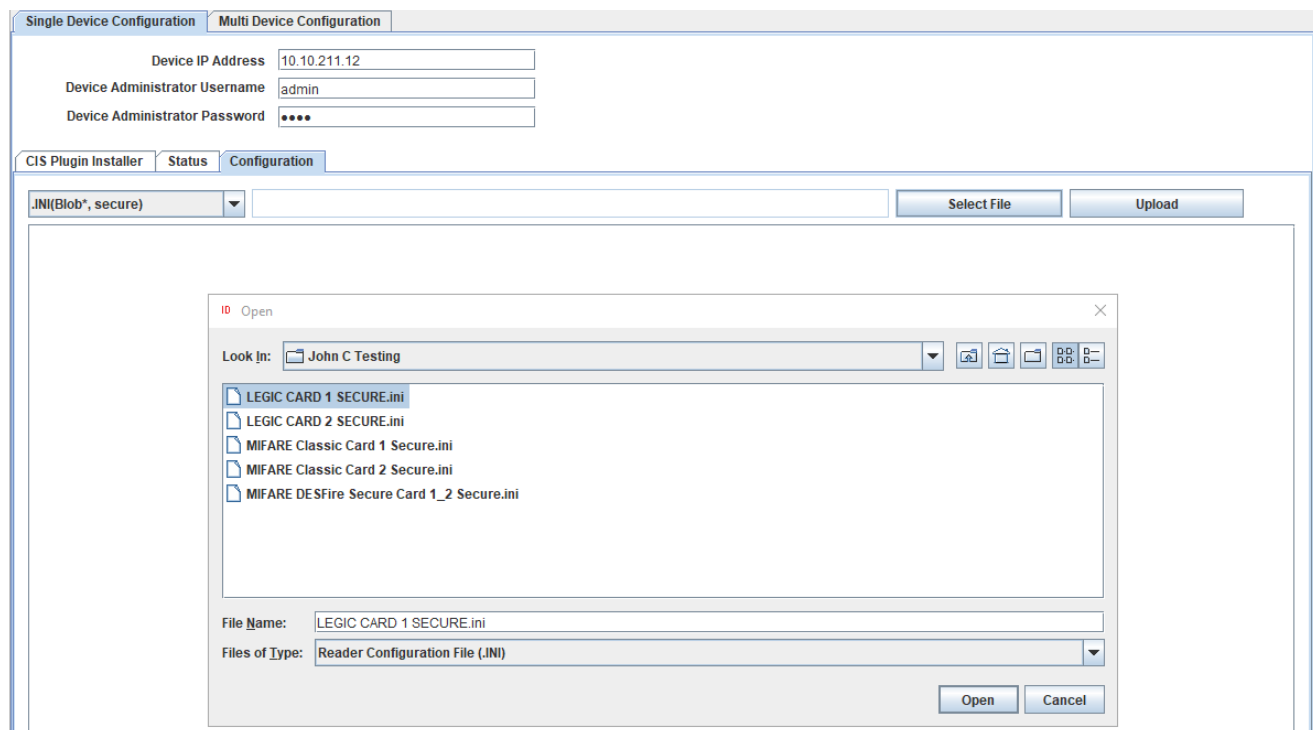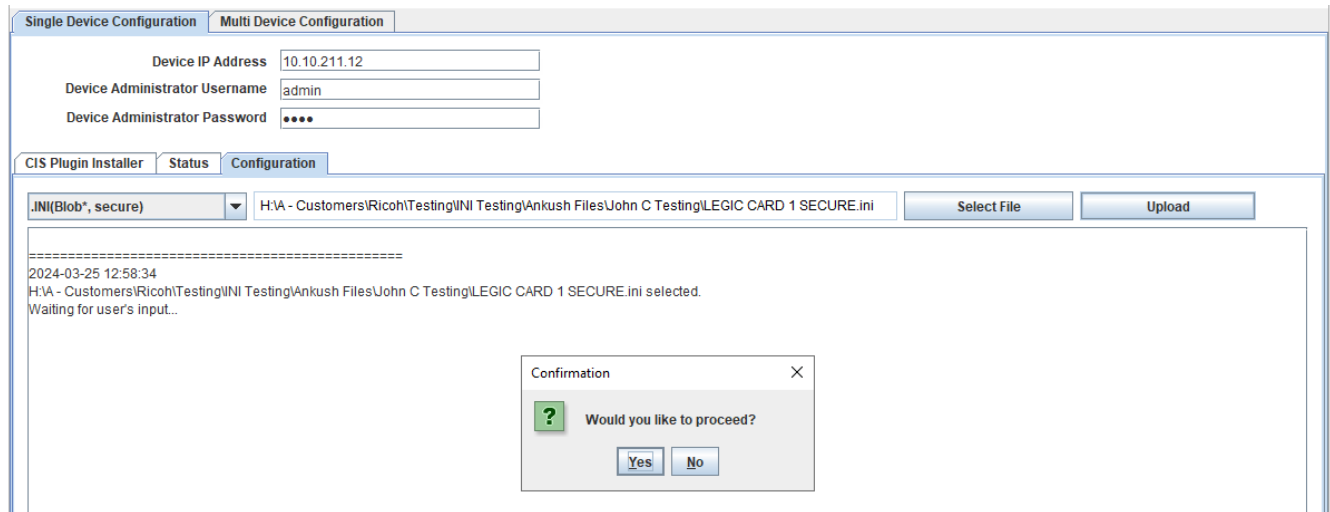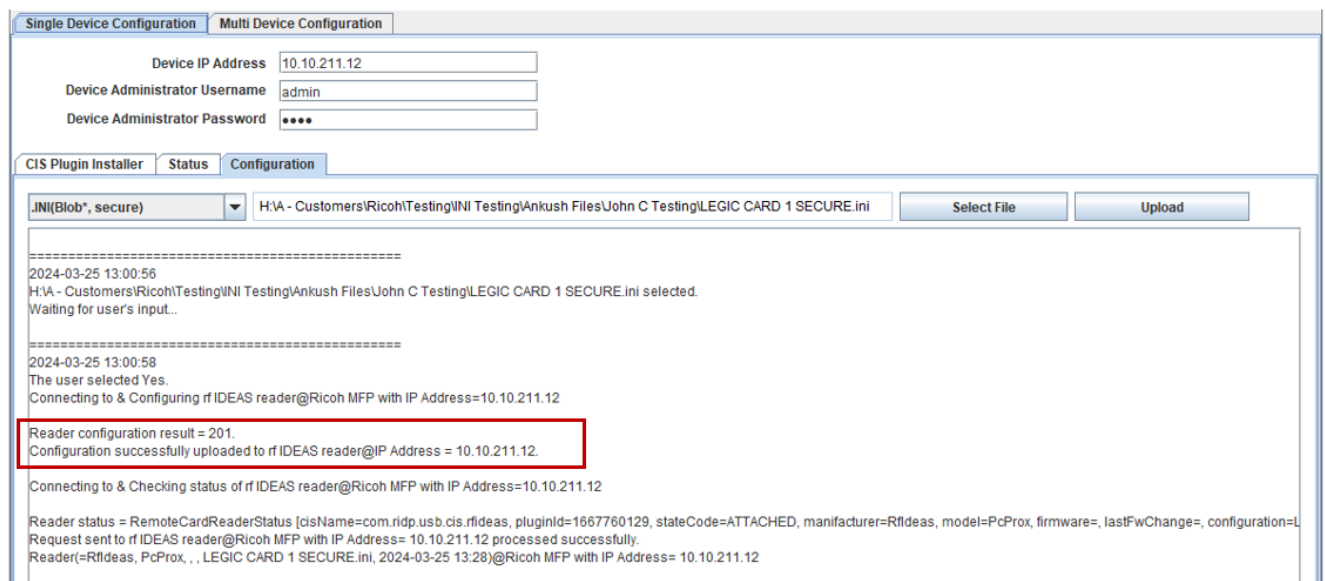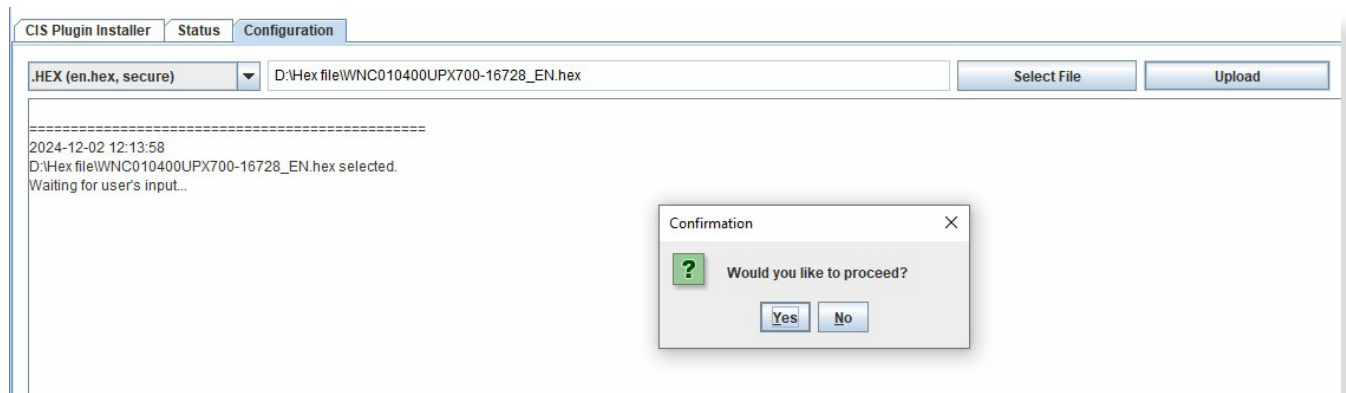Configure reader card types, reader settings and data formatting.
- Click on the "Configuration" tab
- Click the arrow next to "Choose File Type to Upload" and select .HWG+(secure)
- Click on the "Select File" button
- Choose the Secure .HWG+ file you would like to send to the reader, and then click "Open".

NOTE: the current version of RCRM does not allow you send to Secure .HWG+ and Secure Blob .INI files at the same time. This is a feature we plan to release in the future.
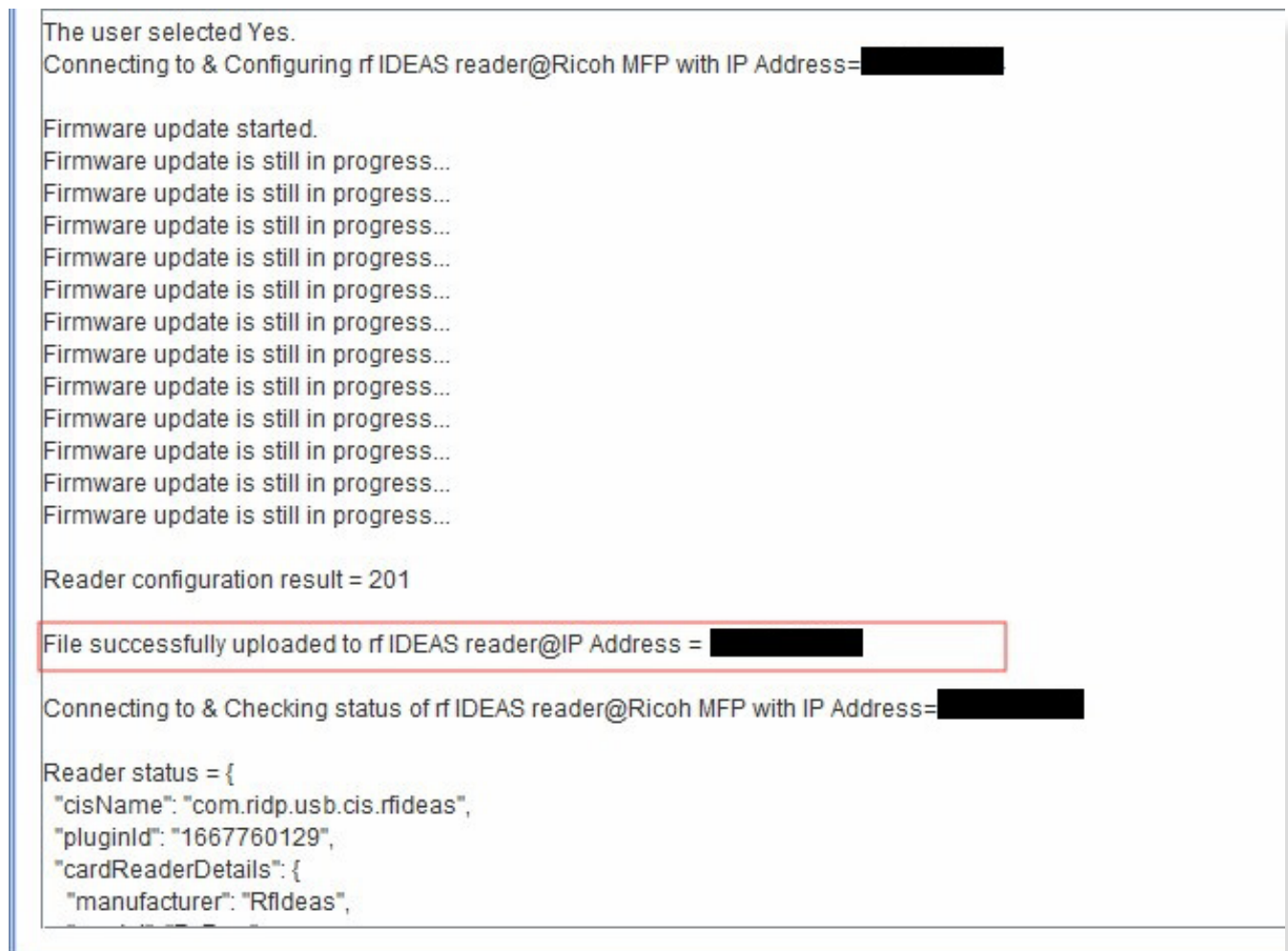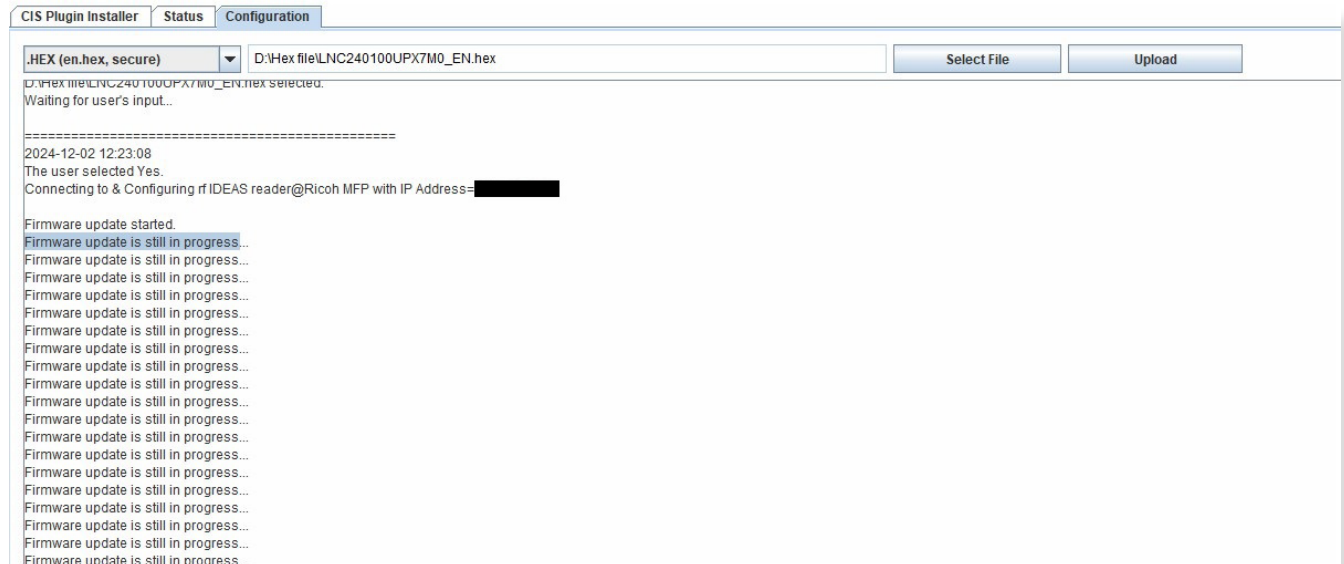
- You will see the Configuration File settings below

- Click the "Upload" button
- Choose "Yes" when ready to proceed with configuring a single rf IDEAS reader.

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh
5.1 Single Device Configuration (one rf IDEAS reader connected to Ricoh MFP)

5.1.6 Upload Secure .HWG+ file

Log File Responses

Successful Results

5.1.7 Upload Secure Blob *.ini file

Configure Smartcard secure reader settings and security keys (sent to SAM card) for Legic and MIFARE Smartcards.
*Note: If you are updating both Secure Blob *.INI and Secure .HWG+ files,* **you must update the Secure Blob *.INI**

before updating the Secure .HWG+ file.

- Click on the "Configuration" tab
- Click the arrow next to "Choose File Type to Upload", and select .INI(Blob*, secure)
- Navigate to the appropriate Secure Blob *.INI file for the customer, and then click "Open"
- You will see the Configuration File settings below

5.1.7 Upload Secure Blob *.ini file

- Click the "Upload" button
- Choose "Yes" when ready to proceed with configuring a single rf IDEAS reader.

Log File Responses

Successful Results

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.1 Single Device Configuration (one rf IDEAS reader connected to Ricoh MFP)

5.1.8 Upload a Secure EN.hex file

Loading .hex firmware file into reader
- Click on the "Configuration" tab
- Click the arrow next to "Choose File Type to Upload" and select .hex secure file
- Click on the "Select File" button
- Choose the EN.hex file you would like to send to the reader, and then click "Open".
- You will see the selected file below with the path.
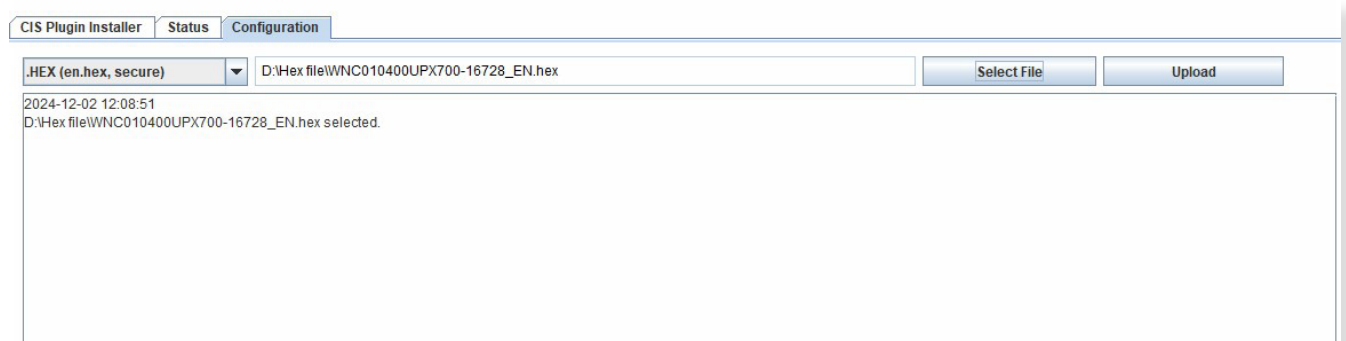
- Click the "Upload" button
- Choose "Yes" when ready to proceed with configuring a single rf IDEAS reader.

Once firmware upgrade has started then "Firmware update is still in progress" message will display on screen until complete. Re-start the same process if there is an interruption.

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.1 Single Device Configuration (one rf IDEAS reader connected to Ricoh MFP)

5.1.8 Upload a Secure EN.hex file

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.1 Single Device Configuration (one rf IDEAS reader connected to Ricoh MFP)

5.1.9 Upload a Secure BLE .hwg+ file

Configure reader card types, reader settings and data formatting for mobile Bluetooth reader.

NOTE: same steps apply for a BLE settings and BLE key file.

- Click on the "Configuration" tab
- Click the arrow next to "Choose File Type to Upload" and select .HWG+ (secure BLE)
- Click on the "Select File" button
- Choose the Secure BLE .HWG+ file you would like to send to the reader, and then click "Open".
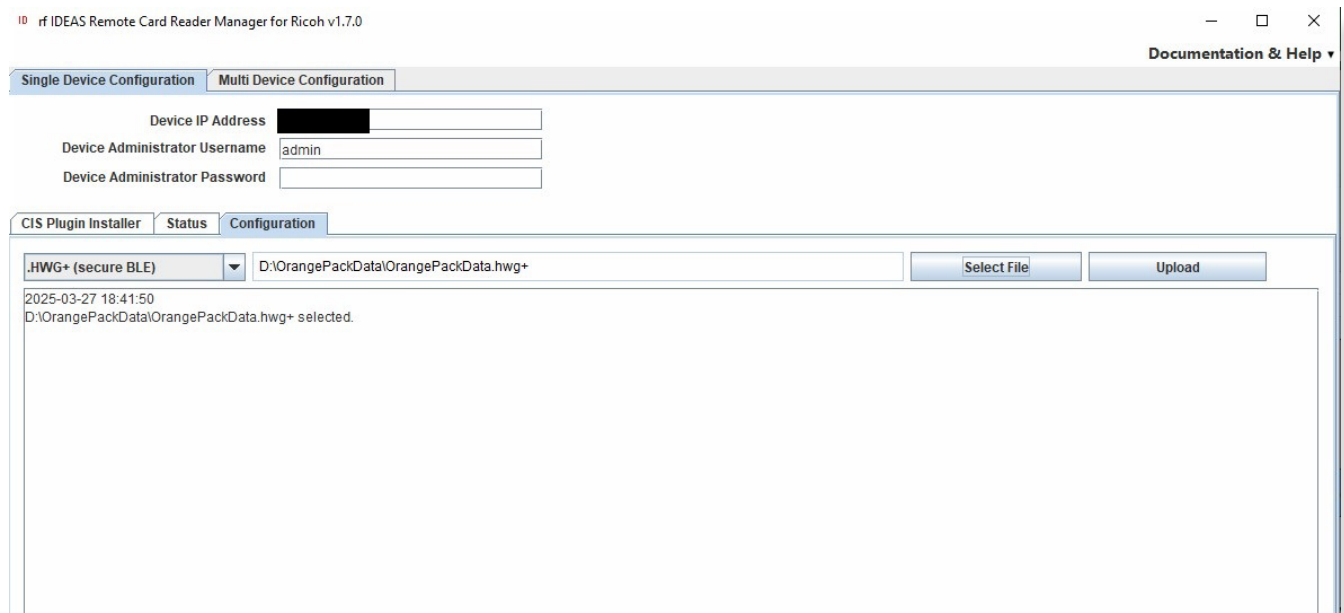
- Click the "Upload" button
- Choose "Yes" when ready to proceed with configuring a single rf IDEAS reader.
- Log File Responses for Successful Results:
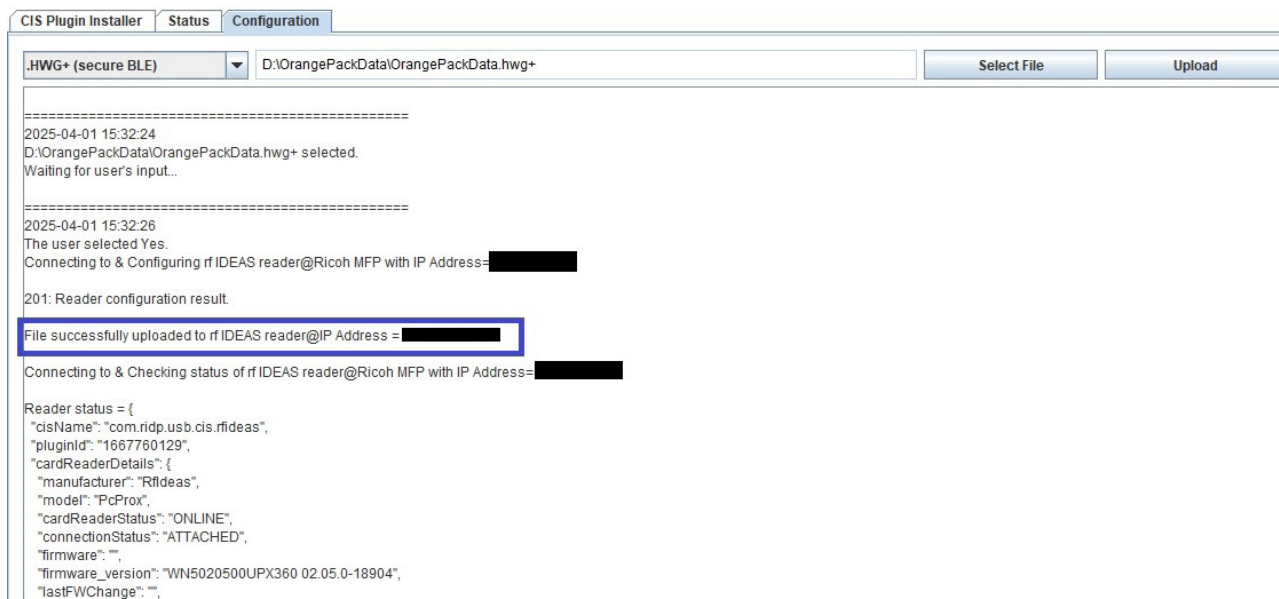
5.2 Multi-Device / Fleet Configuration

Note: If reader and VID/PID is changing, then follow the below steps for CIS Plugin installer.
(For other applications like Streamline or CloudStream, the Plugin and VID PID may not be correct by default. Please see documentation of those tools for how to upload rf IDEAS plugin or set correct VID PID.)

Steps to change VID/PID:
- Check the reader VID/PID and if it is changing, update the VID/PID in .json file and re-install CIS Plugin (using "Deploy")
- Example: if VID should be 0C27 and PID should be 3B4C, then under deploycardreader.json file, edit to:

"cis_plugin_settings":{
       "class":"KSR",
       "package_name":"com.ridp.usb.cis.rfideas",
       "name":"pcProx Card Reader",
       "vendor_id":"**0C27**",
       "product_id":"**3B4C**"
       },

- Save the file and use that file while performing CIS Plugin Installation ("Deploy")

5.2.1 Login & Verify that CIS Plugin is Installed

- Click on the "Multi Device Configuration" tab
- Enter the Admin credentials (Username and/or Password) for the target MFPs (= MFPs onto which the rf IDEAS reader is connected to)
- Click on "Select File" to load the .CSV containing all the target MFPs
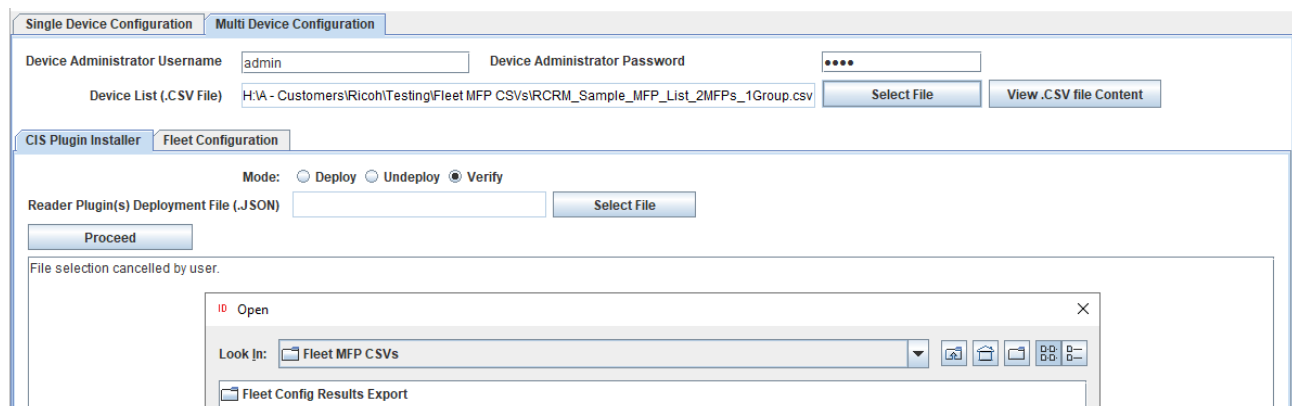
- Select your fleet .csv, and click "Open"
- Click on the "View .CSV file Content" button to review the list of target MFPs
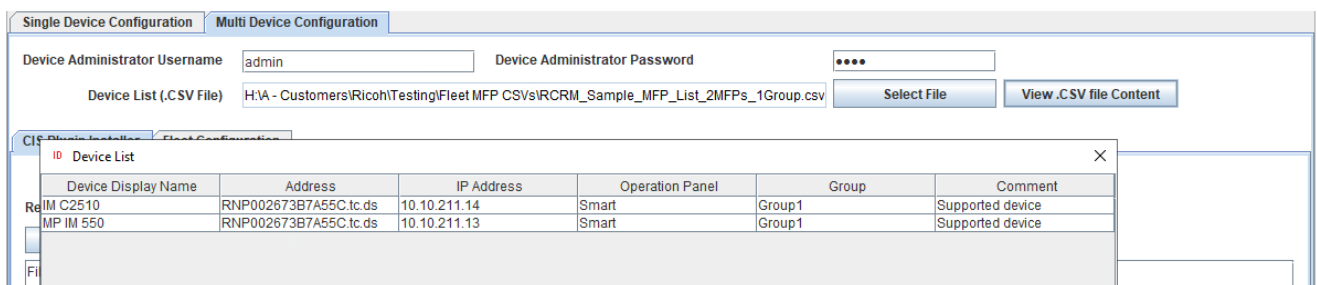
5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.2 Multi-Device / Fleet Configuration

5.2.1 Login & Verify that CIS Plugin is Installed

- Click on the "CIS Plugin Installer" tab
- Set the CIS Plugin Installer mode to "Verify"
- Click on the "Select" file button to load the rf IDEAS plugin deployment .json file
- Select rf IDEAS Remote Card Reader Manager for Ricoh\resources\deploycardreader.json, and click Open
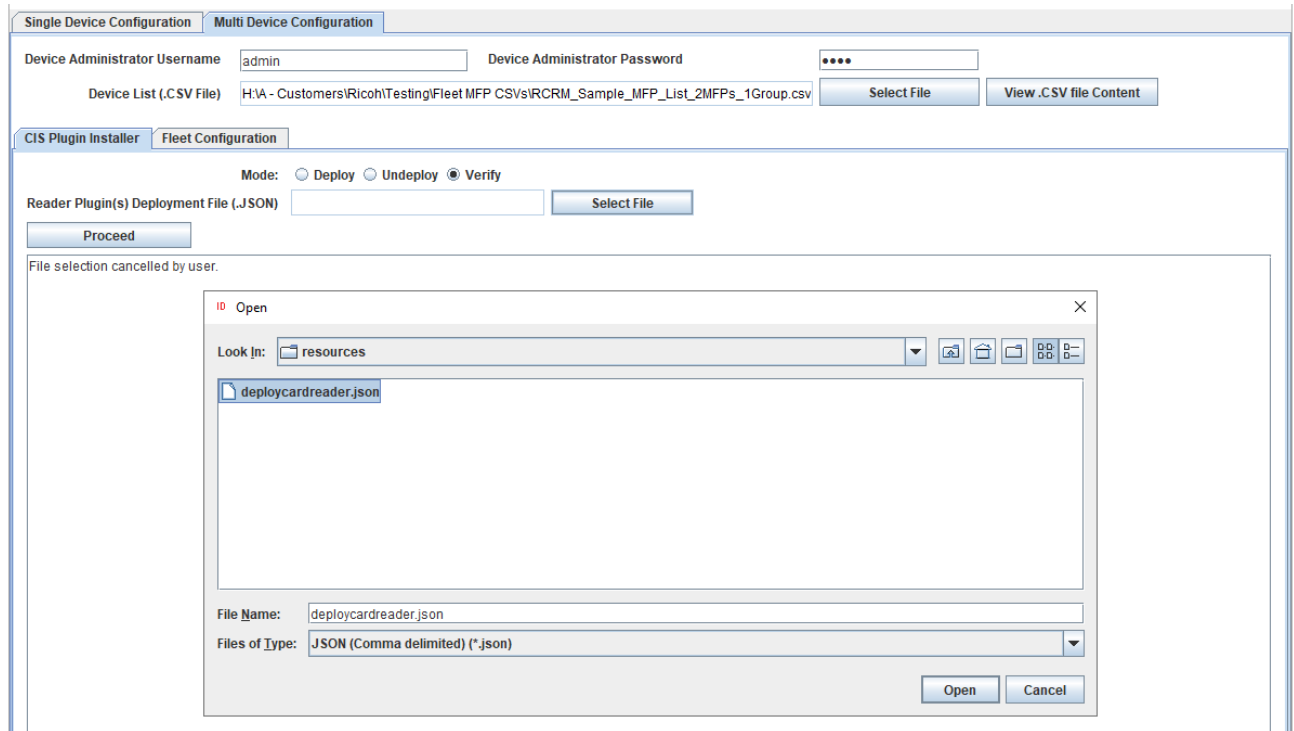
- Click "Proceed"

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh
5.2 Multi-Device / Fleet Configuration

5.2.1 Login & Verify that CIS Plugin is Installed

- Click "Yes" to start rf IDEAS reader CIS plugin(s) installation on the Ricoh MFP
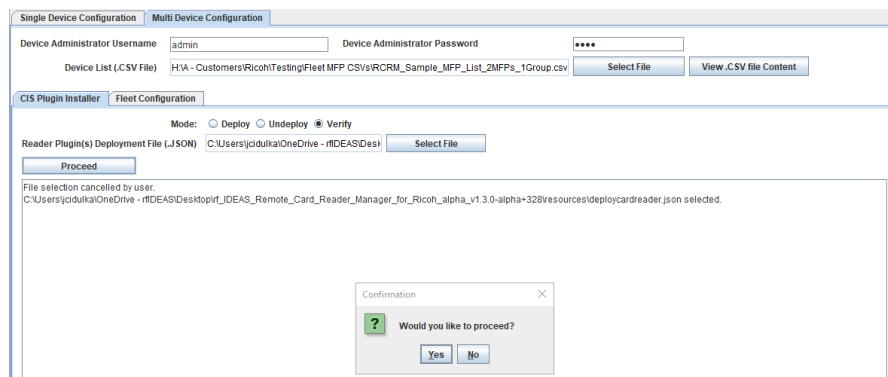
Log File Responses
Plugins are installed on MFPs

Plugins are not installed on MFPs

5.2.2 If rf IDEAS Plugin is not Installed

- If the rf IDEAS plugins are not installed, please set the CIS Plugin Installer 's mode to "Deploy"
- Click on the "Select File" button to load the rf IDEAS plugin deployment .json file
- Select rf IDEAS Remote Card Reader Manager for Ricoh\resources\deploycardreader.json, and click Open

- After loading the .json file click the "Proceed" button
- Click on "Yes" for the rf IDEAS CIS Plugin(s) to be installed on the target Ricoh MFPs

Log File Responses
Plugins have been successfully deployed to MFPs
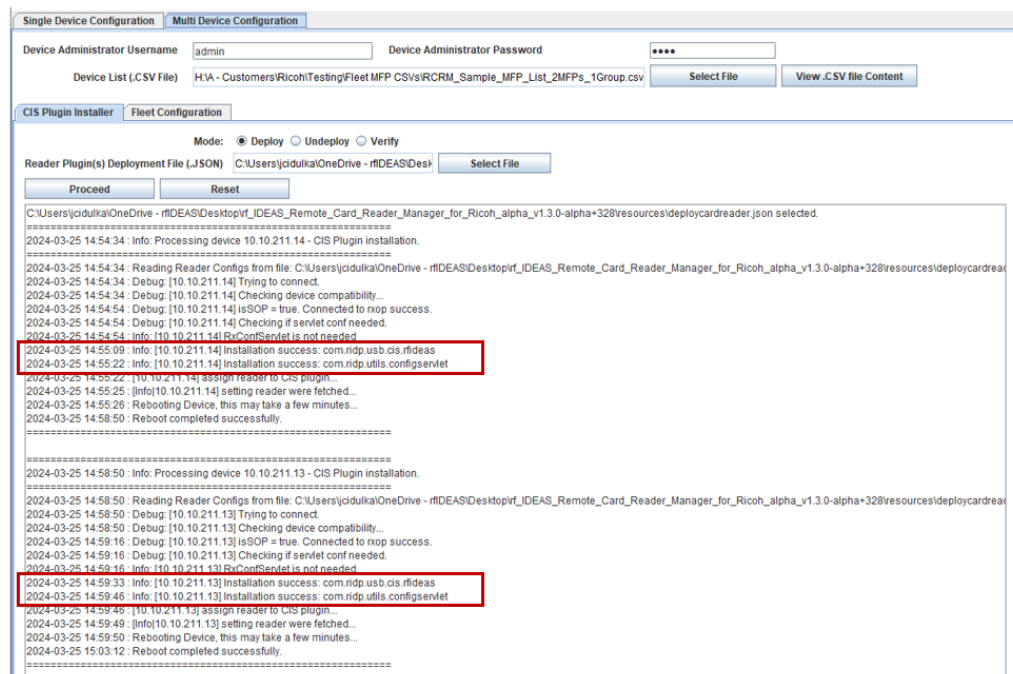
The Remote Card Reader Manager application will automatically reboot the MFPs after plugin installation.

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.2 Multi-Device / Fleet Configuration

5.2.2 If rf IDEAS Plugin is not Installed

<u>Undeploy Function:</u>
- You can Undeploy any plugin file uploaded to the MFP via the rf IDEAS Remote Card Reader Manager for Ricoh application by selecting the "Undeploy" radio button, then clicking the "Select File" button.
- It is not able to Undeploy plugin files installed via WIM or RIM.

5.2.3 Using Ricoh's Remote Installer Manager (RIM) to install RfIdeasReaderPlugin & RiDPConfigServletInstaller

1. Install RIM
2. Start RIM *NOTE: Don't forget to set the admin credentials under File\Environment Setting\Device Communication Settings\Authentication Settings!*
3. Right-click on Device List
4. Click on Add, and Select > Specify File to load .CSV containing multiple MFP(s)
5. Right - click on MFP(s), Select Offline Operations > Install [2visit course]...> 1. Install [Device]
6. Select RfIdeasReaderPlugin.zip, and click Open
7. Click yes in the Remote installer Manager Popup window *NOTE: Do not turn the device's power off while the process is being performed.*
8. Wait for the process to be completed. *NOTE: you can also access the MFP locally (Panel) or via WIM to confirm that the plugin was installed*
9. Repeat steps 5 thru to 8 for RiDPConfigServletInstaller.zip
10. Close RIM

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.2 Multi-Device / Fleet Configuration

5.2.4 Select a Secure .HWG+ File for a "Group" of Readers

The Fleet Configuration function allows you to configure multiple readers, with the same Secure .HWG+ files, simultaneously.

• Click on the Fleet Configuration tab
• Click the arrow next to "Choose File Type to Upload" and select .HWG+(secure)
• Click the "Select Reader Configuration File" button in the task table to load in your Secure .HWG+ file
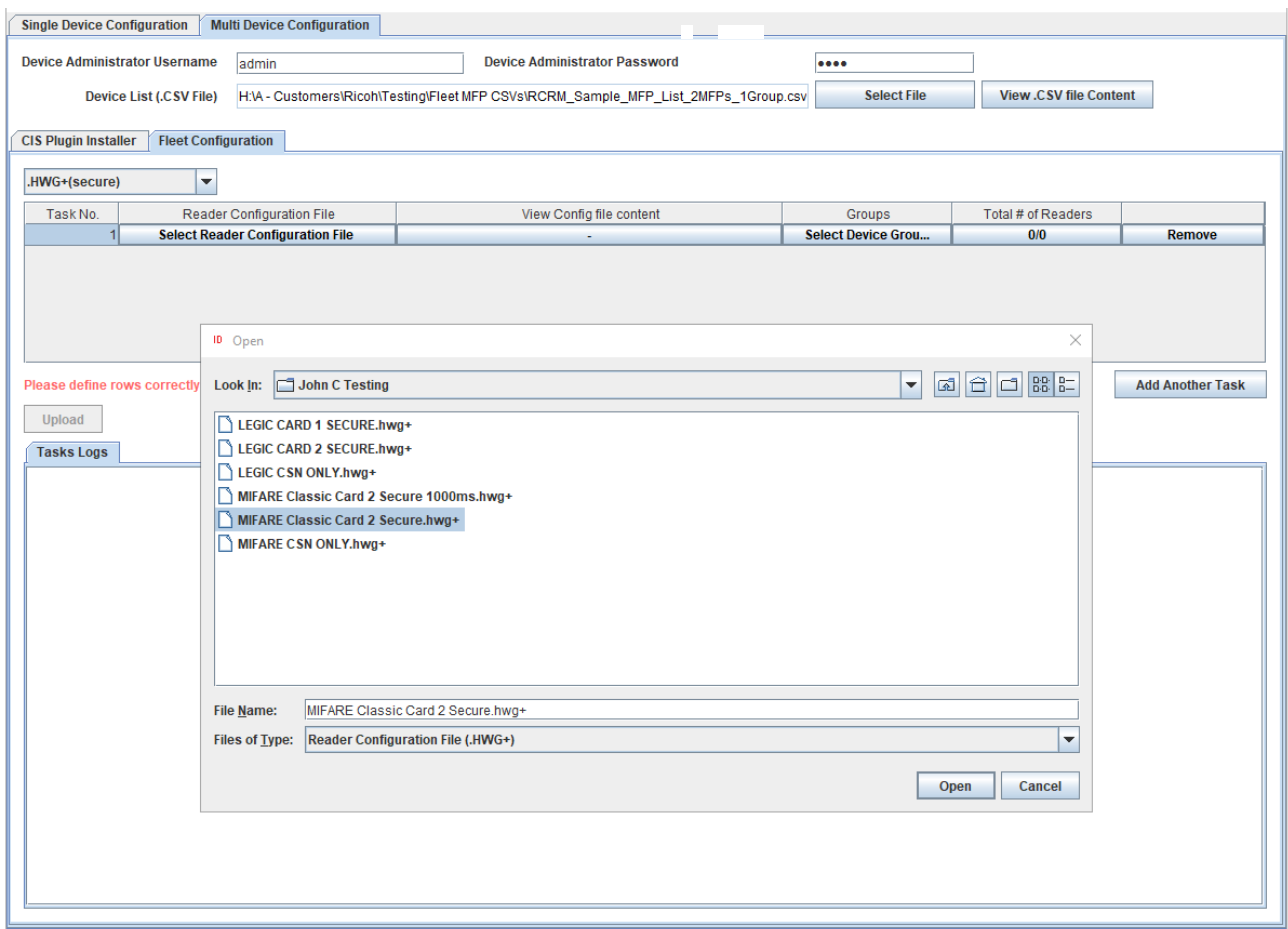
• Choose the Secure .HWG+ file you would like to send to the readers, and then click "Open"
• Your selected Secure file appears in the task bar
• Click on the "View Config file content" button to view configuration settings

5.2 Multi-Device / Fleet Configuration

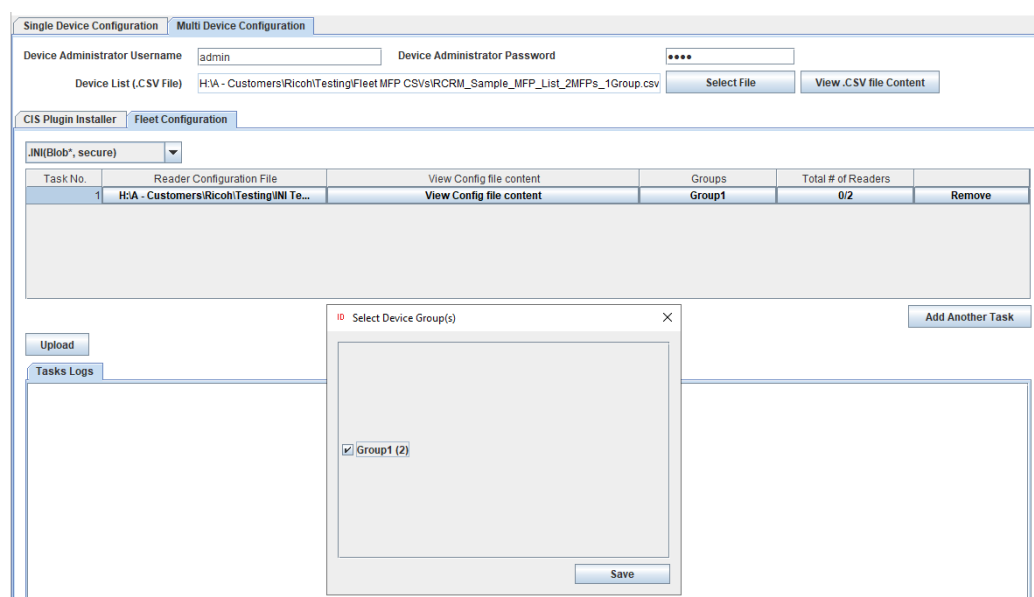### 5.2.4 Select a Secure .HWG+ File for a "Group" of Readers

NOTE: the current version does not allow you send to Secure .HWG+, Secure Blob *.INI and EN.hex files at the same time. Please check back for this feature in the future.

- Click on the "Select Device Group(s)" button to choose the MFP that the above chosen Secure .HWG+ file should be applied to.
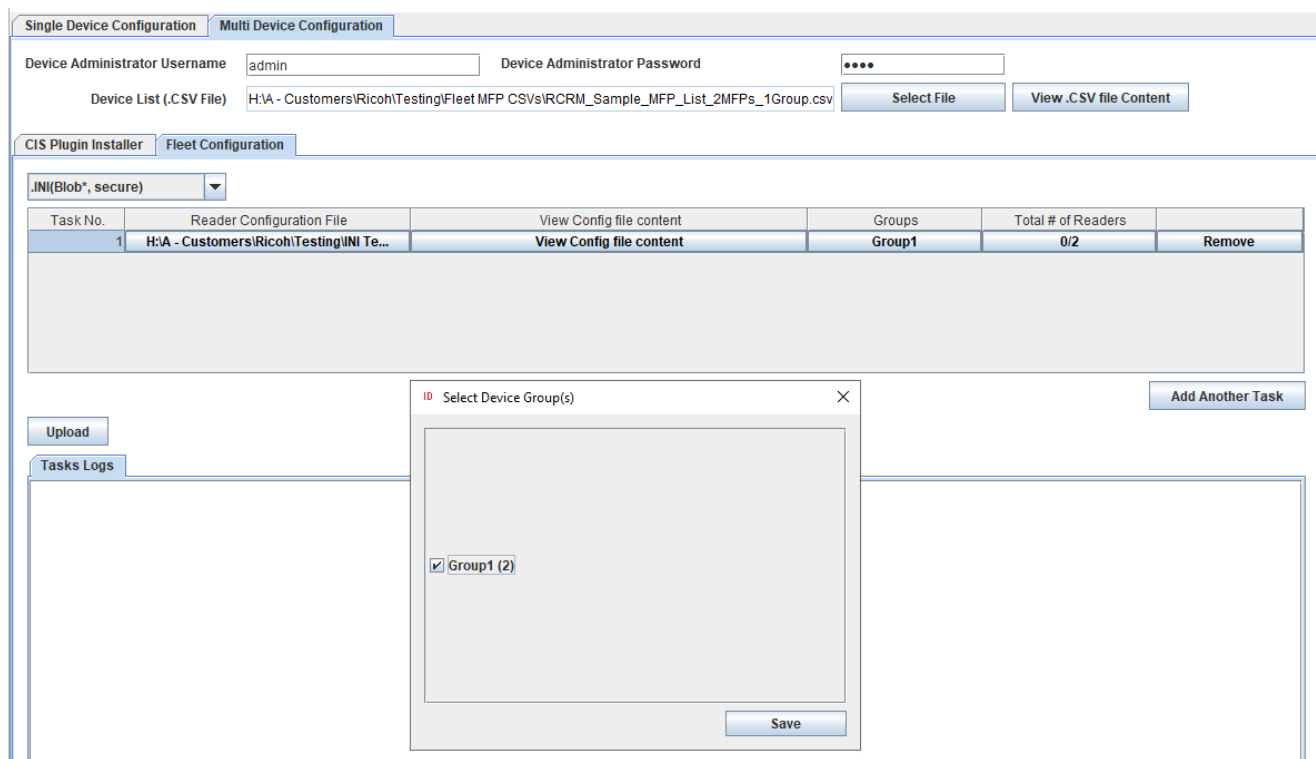
- With the RCRM, you have the ability to send different Secure .HWG+ files to different cohorts of readers simultaneously, by creating additional groups in the MFP CSV file.
- It is recommended that you begin using the utility with a single group (Group 1).
- Then as you become more proficient, you have the option to send multiple Secure .HWG+ files to multiple MFPs by adding additional Groups in the MFP CSV file.

NOTE: the current version of RCRM does not allow you send to Secure .HWG+ and Secure. Blob *.INI files at the same time. This is a feature we plan to release in the future.

- Click the "Upload" button to upload the HWG+ files to the targeted MFPs

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.2 Multi-Device / Fleet Configuration

5.2.4 Select a Secure .HWG+ File for a "Group" of Readers

Log File Responses

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.2 Multi-Device / Fleet Configuration

5.2.5 Select a Secure Blob *.INI File for a "Group" of Readers

NOTE: the current version does not allow you send to Secure .HWG+, Secure Blob *.INI and EN.hex files at the same time. Please check back for this feature in the future.

The Fleet Configuration function allows you to configure multiple readers, with the same Secure Blob *.INI files simultaneously. *Note: If you are updating both Secure Blob *.INI and Secure .HWG+ files,* **you must update the Secure Blob *.INI before updating the Secure .HWG+ file.**

- Click on the Fleet Configuration tab
- Click the arrow next to "Choose File Type to Upload" and select .INI(Blob*, secure)
- Click the "Select Reader Configuration File" button in the task table to load in your Secure Blob *.INI file
- Choose the Secure Blob *.INI file you would like to send to the readers, and then click "Open"
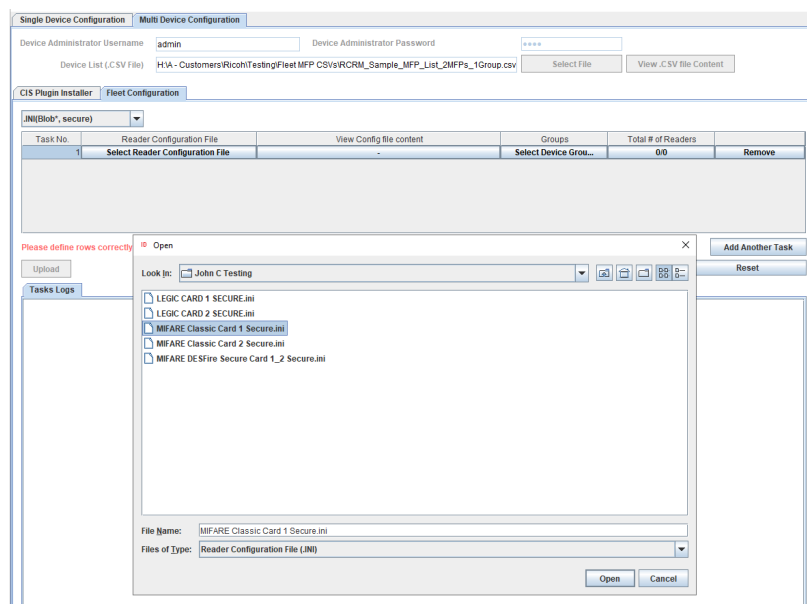
- Your selected Secure Blob *.INI file appears in the task bar
- Click on the "View Config file content" button to view configuration settings
- Click on the "Select Device Group(s)" button to choose the MFPs that the above chosen Secure Blob *.INI file should be applied to.

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.2 Multi-Device / Fleet Configuration

5.2.5 Select a Secure Blob *.INI File for a "Group" of Readers

- With the RCRM, you have the ability to send different Secure Blob *.INI files to different cohorts of readers simultaneously, by creating additional groups in the MFP CSV file.
- It is recommended that you begin using the utility with a single group (Group 1).
- Then as you become more proficient, you have the option to send multiple Secure Blob *.INI files to multiple MFPs by adding additional Groups in the MFP CSV file.

*NOTE: the current version of RCRM does not allow you send to Secure .HWG+ and Secure. Blob *.INI files at the same time. This is a feature we plan release in the future.*

- Click the "Upload" button to upload the Secure Blob *.INI files to the targeted MFPs

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.2 Multi-Device / Fleet Configuration

5.2.6 Select a Secure BLE .hwg+ File for a "Group" of Readers
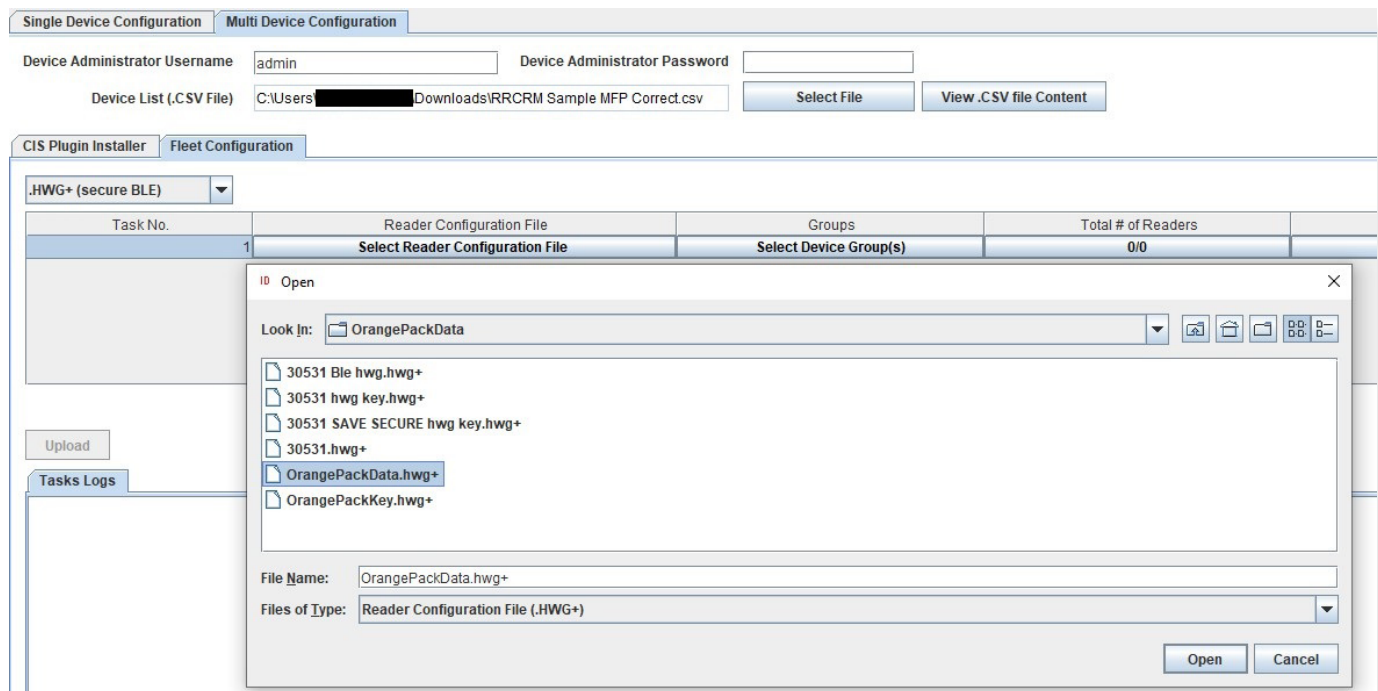
NOTE: the current version does not allow you to send Secure .HWG+, Secure Blob *.INI, BLE .hwg+ and EN.hex files at the same time.

Please check back for this feature in the future.

The Fleet Configuration function allows you to update multiple readers with the same BLE .hwg+ files simultaneously.

NOTE: same steps apply for a BLE settings and BLE key file.

- Click on the Fleet Configuration tab
- Click the arrow next to "Choose File Type to Upload" and select .HWG+ (secure BLE)
- Click the "Select Reader Configuration File" button in the task table to load in your BLE .hwg+ file.
- Choose the BLE .hwg+ file you would like to send to the readers, and then click "Open"

- Your selected BLE .hwg+ file appears in the task bar
- Click on the "Select Device Group(s)" button to choose the MFP that the above chosen BLE .hwg+ file should be applied to.

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh
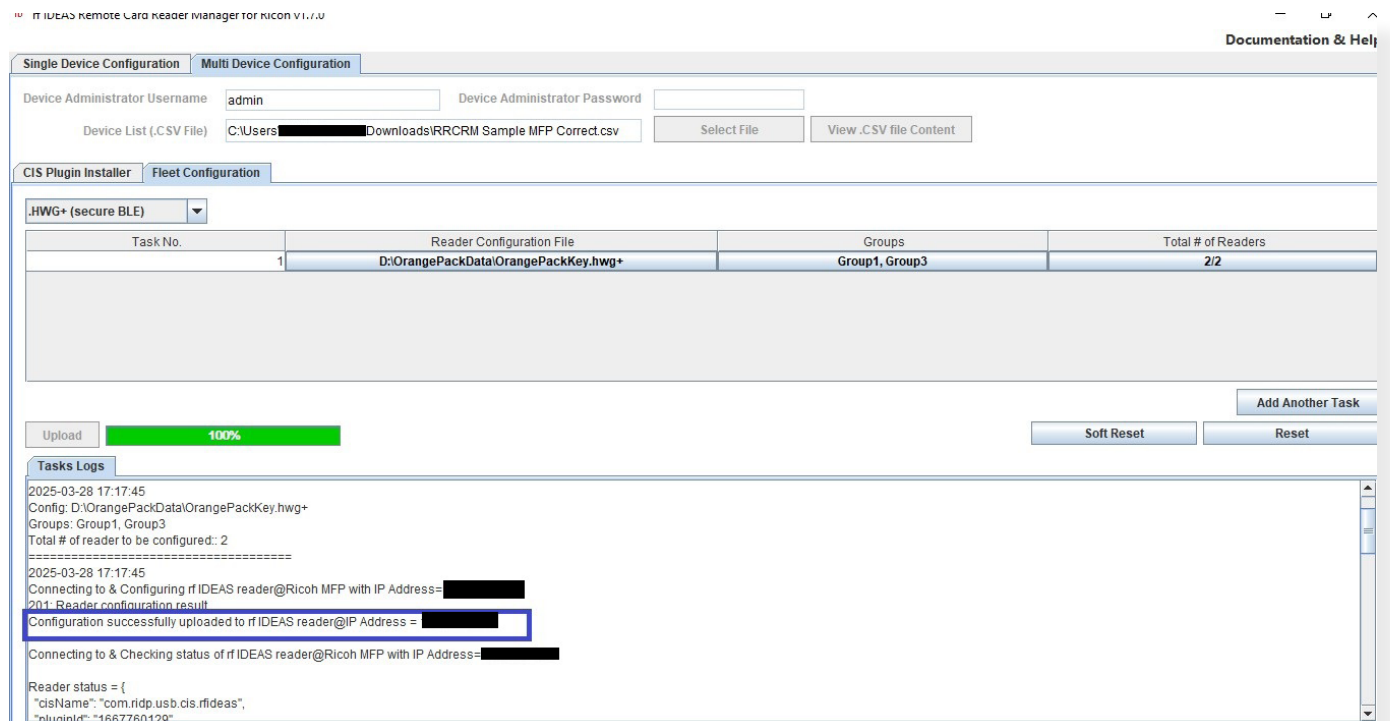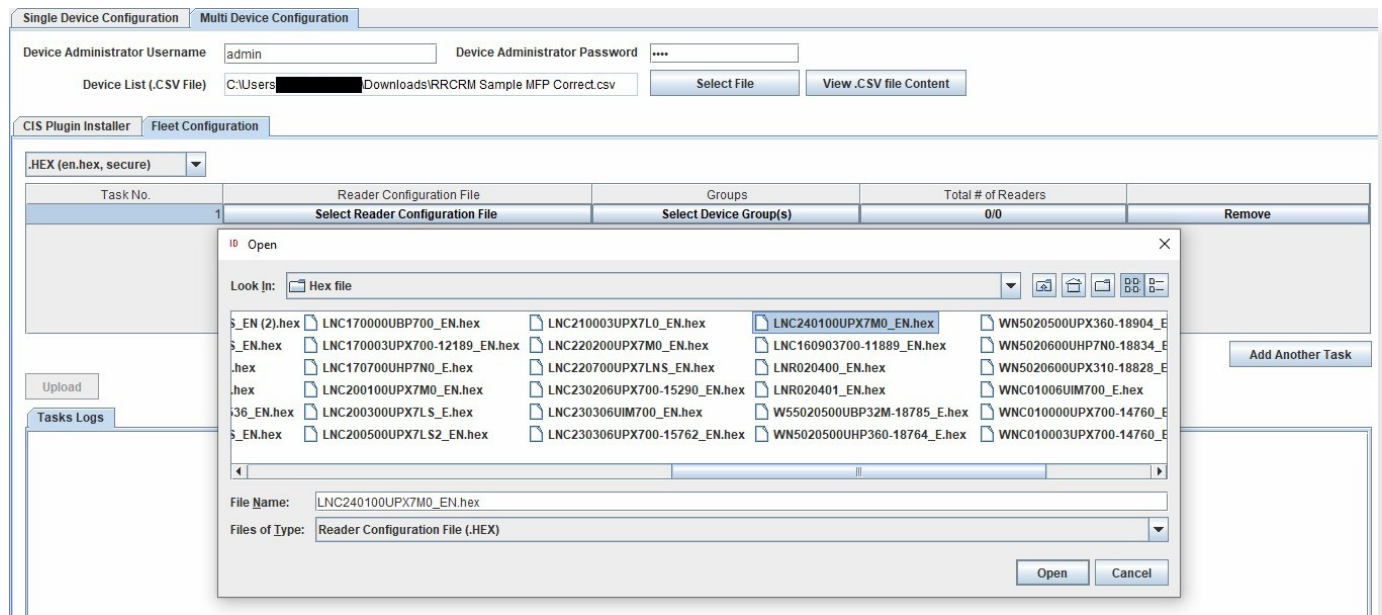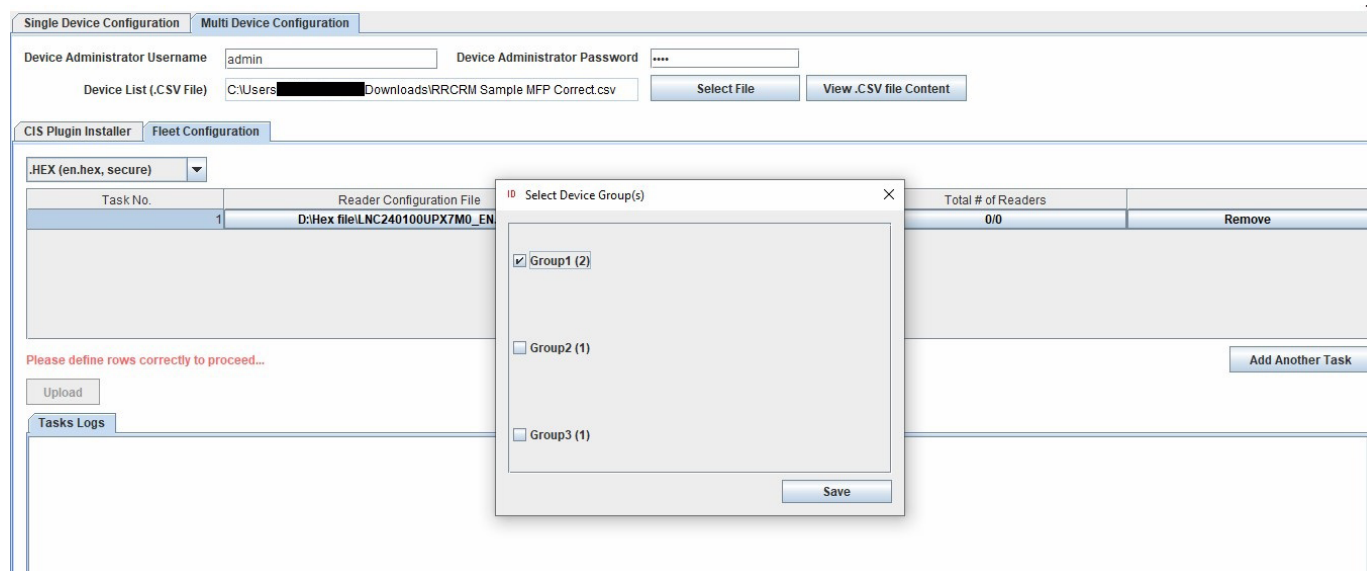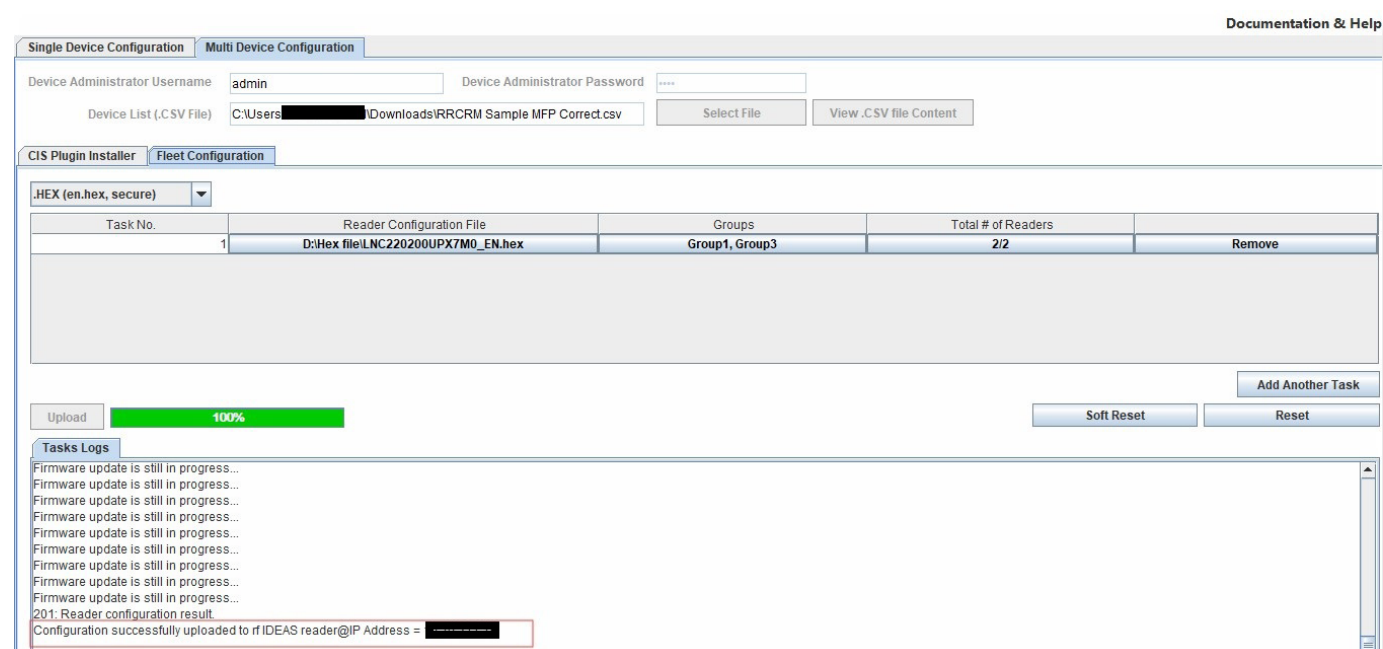
5.2 Multi-Device / Fleet Configuration

5.2.6 Select a Secure BLE .hwg+ File for a "Group" of Readers
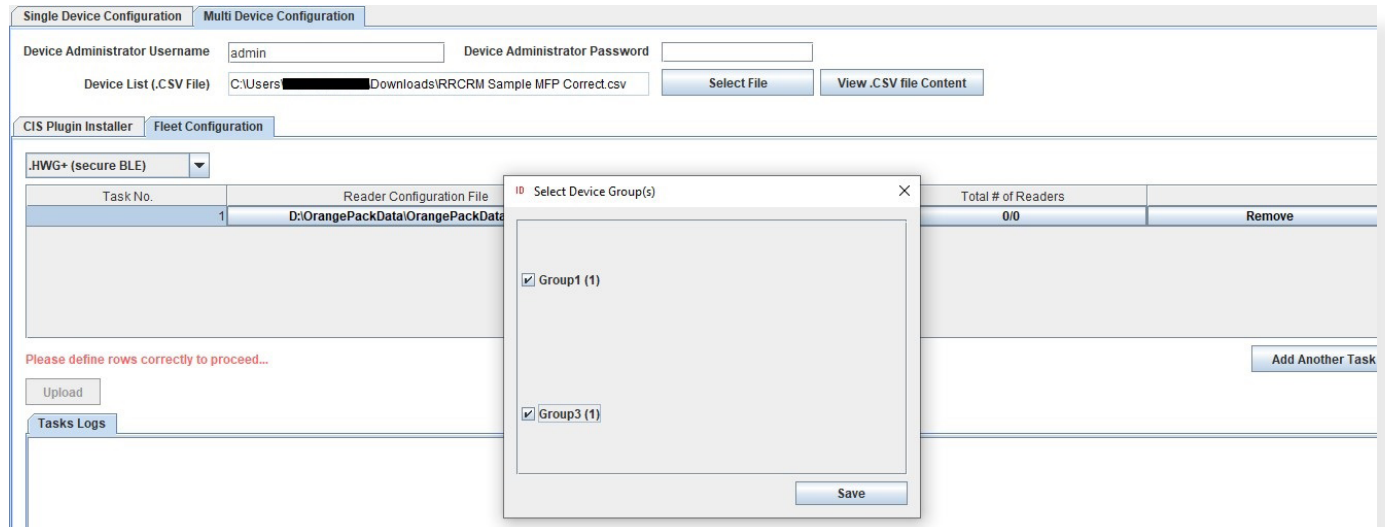
- To send different BLE .hwg+ files to different cohorts of readers simultaneously, create additional groups in the MFP CSV file. Then select "Add Another Task".

NOTE: the current version does not allow you send to Secure .HWG+, BLE .hwg+, Secure Blob *.INI and EN.hex files at the same time. Please check back for this feature in the future.

- Click the "Upload" button to upload the BLE .hwg+ files to the targeted reader.

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.2 Multi-Device / Fleet Configuration

5.2.7 Upload a Secure EN.hex File for a Group of Readers

NOTE: the current version does not allow you send to Secure .HWG+, Secure Blob *.INI and EN.hex files at the same time. Please check back for this feature in the future.

The Fleet Configuration function allows you to update multiple readers with the same EN.hex files simultaneously.
- Click on the Fleet Configuration tab
- Click the arrow next to "Choose File Type to Upload" and select .hex secure file
- Click the "Select Reader Configuration File" button in the task table to load in your EN.hex file

- Choose the EN.hex file you would like to send to the readers, and then click "Open"
- Your selected EN.hex file appears in the task bar
- Click on the "Select Device Group(s)" button to choose the MFP that the above chosen EN.hex file should be applied to.

5. Configure the rf IDEAS Remote Card Reader Manager for Ricoh

5.2 Multi-Device / Fleet Configuration

5.2.7 Upload a Secure EN.hex File for a Group of Readers

- To send different EN.hex files to different cohorts of readers simultaneously, create additional groups in the MFP CSV file. Then select "Add Another Task".

NOTE: the current version does not allow you send to Secure .HWG+, Secure Blob *.INI and EN.hex files at the same time. Please check back for this feature in the future.

- Click the "Upload" button to upload the EN.hex files to the targeted reader

5.2.8 Export Results from Multi-Device Configuration

- To export results of your fleet configuration, click the button(s) below the "Total # of Readers" table heading.
- Click the "Export" button in the pop-up window.

6. Have Additional Questions/Need Assistance?

Tech Support
Click here to submit a help request to rf IDEAS Tech Support.

Troubleshooting FAQs
Click here access Troubleshooting FAQs.

rf IDEAS Knowledge Base
https://knowledgebase.rfideas.com/

rf IDEAS